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April 1, 2010

**-VIA HAND DELIVERY -**

Ms. Ann Cole  
Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399-0850

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COMMISSION  
CLERK

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RECEIVED-FPSC

**In Re: Petition for Approval of 2010 Revisions to Florida Power & Light  
Company's Underground Residential and Commercial Differential Tariffs**

Dear Ms. Cole:

Enclosed for filing on behalf of Florida Power & Light Company ("FPL") are an original and fifteen (15) copies of FPL's Petition for Approval of 2010 Revisions to FPL's Underground Residential and Commercial Distribution Tariff. Also enclosed is a diskette containing FPL's Petition in Word.

If there are any questions regarding this transmittal, please contact me at 561-691-2512. Thank you for your consideration in this matter.

Sincerely,

Kenneth M. Rubin

Enclosures

COM cc: Erik L. Sayler, Esq. w/enc.  
APA \_\_\_\_\_ Robert Scheffel Wright, Esq. w/enc.  
ECR 12+CD  
GCL 2  
RAD \_\_\_\_\_  
SSC \_\_\_\_\_  
ADM \_\_\_\_\_  
OPC 1  
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an FPL Group company

DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Petition for Approval of Underground Residential     ) Docket No.  
and Commercial Differential Tariff Revisions                     )  
\_\_\_\_\_ ) Filed: April 1, 2010

**PETITION FOR APPROVAL OF 2010 REVISIONS TO  
FLORIDA POWER & LIGHT COMPANY'S UNDERGROUND  
RESIDENTIAL AND COMMERCIAL DIFFERENTIAL TARIFFS**

Florida Power & Light Company ("FPL"), by and through its undersigned counsel, and pursuant to Rule 25-6.078(3) and 25-6.033, Florida Administrative Code ("F.A.C."), hereby requests approval of FPL's revisions to its Underground Residential Differential ("URD") tariff sheets, as set forth below. In addition, FPL requests approval of FPL's revisions to its Underground Commercial/Industrial Differential ("UCD") tariff sheets as set forth below. In support of this Petition, FPL states as follows:

(1) All pleadings, correspondence, staff recommendations, orders, or other documents filed, served or issued in this docket should be served on the following individuals on behalf of FPL:

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(2) Rule 25-6.078(3), F.A.C., requires each utility to file with the Commission, on or before October 15 of each year, Division of Economic Regulation Form PSC/ECR 13-E, Schedule 1. If the cost differential for underground service as calculated in Schedule 1 varies from the Commission-approved differential by plus or minus 10% or more, the utility must file a written policy and supporting data and analyses as prescribed in Sections (1), (4), and (5) of Rule 25-6.078 on or before April 1 of the following year.

(3) By way of background, FPL filed revised URD tariff sheets on April 2, 2007, together with supporting data, analysis and cost justification, consistent with the “10% or more” filing requirement. Although not required by the Commission, FPL also followed its customary practice of filing revised UCD tariffs and supporting data, analysis and cost justification to accompany revisions to its URD tariffs.

(4) Rule 25-6.078 was amended in February 2007 to require, *inter alia*, that the cost estimates used to develop the URD tariff reflect the requirements of Rule 25-6.0342, F.A.C., Electric Infrastructure Storm Hardening, and that the difference in the net present value of operational costs, including non-storm and average historical storm restoration costs over the life of the facilities, between underground and overhead systems, if any, be taken into consideration in determining the URD tariffs. The cost estimates used in developing the April 2007 URD tariffs did not reflect the impact of the Storm Hardening rule or the operational cost differential, because FPL did not have information available at the time to do so.

(5) The Commission approved FPL’s April 2007 URD and UCD tariffs in Order No. PSC-07-0835-TRF-EI, dated October 16, 2007. However, the Municipal

Underground Utilities Consortium and the City of Coconut Creek (collectively, “MUUC”) timely protested the April 2007 URD and UCD tariffs, principally because they did not reflect the impact of the Storm Hardening rule or the operational cost differential.

(6) A hearing was scheduled by the Commission for June 2008 to consider MUUC’s protest. However, prior to the time set for that hearing, FPL developed the information necessary to address the impact of the Storm Hardening rule and the operational cost differential in its URD and UCD tariffs. Accordingly, FPL and MUUC agreed to move for a continuance of the hearing to provide FPL with the opportunity to file revised URD and UCD tariffs by April 1, 2008 that reflected the impact of the Storm Hardening rule and the operational cost differential.<sup>1</sup> The petition seeking approval of the revised URD and UCD tariffs was thereafter filed on April 1, 2008.

(7) While the principal motivation for filing revised URD and UCD tariffs on April 1, 2008 was to reflect the impact of the Storm Hardening rule and the operational cost differential, at that time FPL also updated all of the costs used to calculate the tariffs, based on 2007 cost data. This action was consistent with the intent of Rule 25-6.078 that the tariffs be updated to reflect current cost levels.

(8) In Order No. PSC-08-0774-TRF-EI, issued November 24, 2008, the Commission proposed to approve the April 1, 2008 URD and UCD tariffs in Docket No. 070231-EI. However, on December 15, 2008, MUUC timely protested Order No. PSC-08-0774-TRF-EI and requested the matter be set for a formal hearing. Pending resolution

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<sup>1</sup> The continuance was granted by Order No. PSC-08-0141-PCO-EI, dated March 6, 2008.

of the protests, the subject tariffs have remained in effect with any charges collected held subject to refund.

(9) By Order No. PSC-09-0114-PCO-EI, issued February 25, 2009, Docket No. 070231-EI was consolidated with Docket No. 080244-EI, the FPL docket initiated to request approval of FPL's operational costs (including non-storm and average historical storm restoration costs) utilized when determining the Contribution in Aid of Construction ("CIAC") to be paid by applicants in conjunction with conversion from overhead to underground facilities.

(10) A hearing was scheduled for June 3, 2009 on the consolidated dockets referred to in the preceding paragraph. However, when the hearing convened, the parties announced that they had reached conceptual agreement on a settlement of the issues raised in the two referenced dockets, along with issues raised in Docket No. 080522-EI related to FPL's direct engineering, supervision, and support ("DESS") costs associated with underground construction and conversions. The parties requested that the hearing be held in abeyance until the parties could complete the actions contemplated under the proposed settlement.

(11) The parties ultimately completed the necessary discussions and actions and submitted the settlement for approval on November 20, 2009 in the form of an executed document entitled "Stipulation and Settlement Agreement" ("Settlement"). The Commission is in the process of reviewing the Settlement and is presently scheduled to consider approval of the Settlement at its April 6, 2010 Agenda Conference.

(12) While the matters addressed above have been pending, and in accordance with the requirements of Rule 25-6.078(3), F.A.C., FPL filed Form PSC/ECR 13-E,

Schedule 1 with the Division of Economic Regulation on October 15, 2009. This filing shows that the cost differential for underground service as calculated in Schedule 1 varies from the Commission-approved differential by plus or minus 10% or more. As a result, FPL is required to now file a written policy and supporting data and analyses as prescribed in Sections (1), (4), and (5) of Rule 25-6.078 on or before April 1 of the following year, or in this case on or before April 1, 2010.

(13) The revised tariff sheets appended to this Petition reflect the changes agreed to and documented by the Settlement relative to the overhead vs. underground operational cost differential (the non-storm portion of operational costs now set at \$0 for the URD tariff), along with the additional changes required by and consistent with the “10% or more” filing requirement.<sup>2</sup>

#### **FPL’s URD Tariffs**

(14) FPL’s revised URD tariffs are contained in Appendix URD 1 to this petition. Appendix URD 1 includes the following revised Tariff sheets amending the charges found in Section 6 of FPL’s Tariff Book, General Rules and Regulations for Electric Service, and in Section 9, Standard Forms, in final and legislative formats:

6.090	6.120
6.095	6.125
6.100	6.130
6.110	9.715
6.115	

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<sup>2</sup> In the event the Commission does not approve the Settlement at the Agenda Conference currently scheduled for April 6, 2010, FPL will file an amended petition and revised tariff sheets consistent with the Commission’s decision.

(15) The revisions to the charges found in the above-specified URD tariff sheets are shown in Appendix URD 1, in final and legislative formats. Appendix URD 2 sets forth FPL's narrative support for the changes to its rules and regulations and standard forms in FPL's Tariff Book as described above. Appendices URD 3 and 4 detail and support FPL's changes in its Estimated Average Cost Differential, which support the changes in FPL's tariffs identified above.

(16) The information set forth in Appendices URD 1, 2, 3, and 4, filed herewith and incorporated herein by reference, provide the information required under Rule 25-6.078(1), (3), and (5), F.A.C., and the necessary support for the relief requested in this Petition.

#### **FPL's UCD Tariffs**

(17) FPL's revised UCD tariffs are contained in Appendix UCD 1 to this petition. Appendix UCD 1 includes the following revised UCD tariff sheets, in final and legislative formats, amending the charges found in Section 6 of FPL's Tariff Book, General Rules and Regulations for Electric Service:

6.510

6.520

6.530

6.540

Appendix UCD 2 sets forth FPL's revisions (additions/deletions) and the reasons for the changes to FPL's UCD tariff sheets. The data and analyses supporting the changes in the UCD tariffs are set forth in Appendices UCD 3 and 4.

(18) Unlike the URD tariffs, FPL's UCD tariffs are not governed by Rule 25-6.078, F.A.C., or any other rule which specifies that the UCD tariffs must reflect the impact of the Storm Hardening rule or the operational cost differential (including storm costs). Nonetheless, FPL has incorporated the cost effects of hardening its overhead system into the calculation of its UCD charges. FPL has concluded, however, that it is not only not required but is not feasible to apply to the UCD tariffs the operational cost differential that FPL developed for the URD tariffs. The UCD tariff charges are generally tailored to specific equipment and materials that are utilized to provide underground service to a single or limited number of commercial buildings in distinct and widely varying circumstances, unlike the URD tariff which is designed to apply to an entire residential subdivision. FPL's cost accounting systems and processes are not specific enough to discern operational cost differential for these granular, "one off" types of construction activities. Because of these implementation obstacles and because there is no Commission requirement to do so, FPL has not reflected adjustments for the effects of operational costs in the calculation of its UCD tariffs.

(19) The information set forth in Appendices UCD 1-4, filed herewith and incorporated by reference, provides the information necessary to support the revisions to FPL's UCD as requested in this Petition.



(20) FPL requests the effective date for implementation of the revised URD and UCD tariffs presented with this Petition be thirty (30) days after the date of the Commission's vote approving the appended revised tariff sheets.

WHEREFORE, FPL requests the Commission to approve the revised tariff sheets filed in Appendices URD 1 and UCD 1, effective thirty (30) days after the date of the Commission vote approving said revised tariff sheets.

Respectfully submitted,

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By: 

John T. Butler  
Fla. Bar No. 283479  
Kenneth M. Rubin  
Fla. Bar No. 349038

URD

**APPENDIX 1**  
**URD**

**LEGISLATIVE TARIFF**  
**URD**

## SECTION 10.2 GENERAL

10.2.1. Application

Underground electric distribution facilities are offered in lieu of overhead facilities in accordance with these Rules and Regulations for:

- a) New Residential Subdivisions and Developments.
- b) New Service Laterals from Overhead Systems.
- c) Replacement of Existing Overhead and Underground Service Laterals.
- d) New Multiple-Occupancy Residential Buildings.

10.2.2. Early Notification and Coordination

In order for the Company to provide service when required, it is necessary that the Applicant notify the Company during the early stages of planning major projects. Close coordination is necessary throughout the planning and construction stages by the Company, the architect, the builder, the subcontractors and the consulting engineer to avoid delays and additional expense. Particular attention must be given to the scheduling of the construction of paved areas and the various subgrade installations of the several utilities. Failure of the Applicant to provide such notification and coordination shall result in the Applicant paying any additional costs incurred by the Company.

10.2.3. Changes to Plans, Layout or Grade

The Applicant shall pay for any additional costs imposed on the Company by Applicant including, but not limited to, engineering design, administration and relocation expenses, due to changes made subsequent to the agreement in the subdivision or development layout or final grade.

10.2.4. Underground Installations Not Covered

Where the Applicant requests or governmental ordinance mandates underground electric facilities including -but not limited to - three phase primary feeder mains, transformers, pedestal mounted terminals, switching equipment, meter cabinets, service laterals or other electric facilities not specifically covered by these Rules and Regulations and where overhead facilities would otherwise be provided, the Applicant shall pay the Company the differential installed cost between the underground facilities and the equivalent overhead facilities as calculated by the Company. The Applicant shall also provide necessary rights of way and easements as given in Section 10.2.7.

10.2.5. Type of System Provided

The costs quoted in these rules are for underground residential distribution service laterals, secondary and primary conductors of standard Company design with cable in conduits and above-grade appurtenances. Unless otherwise stated, service provided will be 120/240 volt, single phase. If other types of facilities other than standard Company design are requested by the Applicant or required by governmental authority, the Applicant will pay the additional costs, as calculated by the Company, if any.

10.2.6. Design and Ownership

The Company will design, install, own, and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under the provisions of these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service.

10.2.7. Rights of Way and Easements

The Applicant shall record and furnish satisfactory rights of way and easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to the Company prior to the Company initiating construction. Before the Company will start construction, these rights of way and easements must be cleared by the Applicant of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners and survey control points, graded to within six inches of final grade, with soil stabilized. In addition, the Applicant shall provide stakes showing final grade along the easement. Such clearing and grading must be maintained by the Applicant during construction by the utility.

10.2.8. Contributions and Credits

The Applicant shall pay the required contribution upon receipt of written notification from the Company. No utility construction shall commence prior to execution of the Underground Distribution Facilities Installation Agreement set forth in Tariff Sheet Nos. 9.700, 9.701 and 9.702 and payment in full of the entire contribution. Where, by mutual agreement, the Applicant performs any of the work normally performed by the Company, the Applicant shall receive a credit for such work in accordance with the credit amounts contained herein, provided that the work is in accordance with Company specifications. Such credit shall not exceed the total differential costs. The credit will be granted after the work has been inspected by the Company and, in the case of Applicant-installed conduit, after the applicable conductors have been installed.

(Continued on Sheet No. 6.095)

(Continued from Sheet No. 6.090)

10.2.8.1 Credit for TUGs

If the Applicant installs the permanent electric service entrance such that FPL's service lateral can be subsequently installed and utilized to provide that building's construction service, the Applicant shall receive a credit in the amount of ~~\$48.74~~\$4.74 per service lateral, subject to the following requirements:

- a) TUGs must be inspected and approved by the local inspecting authority.
- b) All service laterals within the subdivision must be installed as TUGs.
- c) FPL must be able to install the service lateral, energize the service lateral, and set the meter to energize the load side of the meter can, all in a single trip. Subsequent visits other than routine maintenance or meter readings will void the credit.
- d) Thereafter, acceptance and receipt of service by the Customer shall constitute certification that the Customer has met all inspection requirements, complied with all applicable codes and rules and, subject to section 2.7 Indemnity to Company, or section 2.71 Indemnity to Company – Governmental, FPL's General Rules and Regulations, the Customer releases, holds harmless and agrees to indemnify the Company from and against loss or liability in connection with the provision of electrical services to or through such Customer-owned electrical installations.
- e) The Applicant shall be held responsible for all electric service used until the account is established in the succeeding occupant's name.

This credit applies only when FPL installs the service - it does not apply when the applicant installs the service conduits, or the service conduits and cable.

10.2.9. Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. The Applicant shall provide accessible locations for meters when the design of a dwelling unit or its appurtenances limits perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

10.2.10. Special Conditions

The costs quoted in these rules are based on conditions which permit employment of rapid construction techniques. The Applicant shall be responsible for necessary additional hand digging expenses other than what is normally provided by the Company. The Applicant is responsible for clearing, compacting, boulder and large rock removal, stump removal, paving, and addressing other special conditions. Should paving, grass, landscaping or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching and backfilling and be responsible for restoration of property damaged to accommodate the installation of underground facilities.

10.2.11. Point of Delivery

The point of delivery shall be determined by the Company and will normally be at or near the part of the building nearest the point at which the secondary electric supply is available to the property. When a location for a point of delivery different from that designated by the Company is requested by the Applicant, and approved by the Company, the Applicant shall pay the estimated full cost of service lateral length, including labor and materials, required in excess of that which would have been needed to reach the Company's designated point of service. The additional cost per trench foot is ~~\$6.04~~\$5.3. Where an existing trench is utilized, the additional cost per trench foot is ~~\$2.67~~\$0. Where the Applicant provides the trenching, installs Company provided conduit according to Company specifications and backfilling, the cost per additional trench foot is ~~\$2.09~~\$1.80. Any re-designation requested by the Applicant shall conform to good safety and construction practices as determined by the Company. Service laterals shall be installed, where possible, in a direct line to the point of delivery.

(Continued on Sheet No. 6.096)



### SECTION 10.3 UNDERGROUND DISTRIBUTION FACILITIES FOR RESIDENTIAL SUBDIVISIONS AND DEVELOPMENTS

#### 10.3.1. Availability

When requested by the Applicant, the Company will provide underground electric distribution facilities, other than for multiple occupancy buildings, in accordance with its standard practices in:

- a) Recognized new residential subdivision of five or more building lots.
- b) Tracts of land upon which five or more separate dwelling units are to be located.

For residential buildings containing five or more dwelling units, see SECTION 10.6 of these Rules.

#### 10.3.2. Contribution by Applicant

- a) The Applicant shall pay the Company the average differential cost for single phase residential underground distribution service based on the number of service laterals required or the number of dwelling units, as follows:

	<u>Applicant's Contribution</u>	<u>Where Applicant installs backbone trench and conduit</u>
1. Where density is 6.0 or more dwelling units per acre:		
1.1 Buildings that do not exceed four units, townhouses, and mobile homes – per service lateral.		
1. Subdivisions with 300 or more total service laterals	\$ 0.00	\$0.00
2. Subdivisions from 100 to 299 total service laterals	\$ <del>203,490.00</del>	\$0.00
3. Subdivisions less than 100 total service laterals	\$ <del>280,195.63</del>	\$0.00
1.2 Mobile homes having Customer-owned services from meter center installed adjacent to the FPL primary trench route - per dwelling unit.		
1. Subdivisions with 300 or more total service laterals	\$ 0.00	\$0.00
2. Subdivisions from 100 to 299 total service laterals	\$ <del>49,150.00</del>	\$0.00
3. Subdivisions less than 100 total service laterals	\$ <del>96,150.00</del>	\$0.00
2. Where density is 0.5 or greater, but less than 6.0 dwelling units per acre:		
Buildings that do not exceed four units, townhouses, and mobile homes – per service lateral		
1. Subdivisions with 200 or more total service laterals	\$ <del>424,2312.39</del>	\$0.00
2. Subdivisions from 85 to 199 total service laterals	\$ <del>654,23242.39</del>	\$0.00
3. Subdivisions less than 85 total service laterals	\$ <del>731,23319.39</del>	\$3.24
3. Where the density is less than 0.5 dwelling units per acre, or the Distribution System is of non-standard design, individual cost estimates will be used to determine the differential cost as specified in Paragraph 10.2.5.		

Additional charges specified in Paragraphs 10.2.10 and 10.2.11 may also apply.

- b) The above costs are based upon arrangements that will permit serving the local underground distribution system within the subdivision from overhead feeder mains. If feeder mains within the subdivision are deemed necessary by the Company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the Company the average differential cost between such underground feeder mains within the subdivision and equivalent overhead feeder mains, as follows:

	<u>Applicant's Contribution</u>
Cost per foot of feeder trench within the subdivision (excluding switches)	\$12.8419
Cost per switch package	\$21,315.9225,697.99

(Continued on Sheet No. 6.110)

(Continued from Sheet No. 6.100)

- c) Where primary laterals are needed to cross open areas such as golf courses, parks, other recreation areas and water retention areas, the Applicant shall pay the average differential costs for these facilities as follows:

Cost per foot of primary lateral trench within the subdivision

1) Single Phase - per foot	\$0.82133
2) Two Phase - per foot	\$2.89312
3) Three Phase - per foot	\$4.5094

- d) For requests for service where underground facilities to the lot line are existing and a differential charge was previously paid for these facilities, the cost to install an underground service lateral to the meter is as follows:

Density less than 6.0 dwelling units per acre:	\$378.3432296
Density 6.0 or greater dwelling units per acre:	\$283.7524034

## 10.3.3. Contribution Adjustments

- a) Credits will be allowed to the Applicant's contribution in Section 10.3.2.a) where, by mutual agreement, the Applicant provides a portion of all trenching and backfilling for the Company's facilities, per foot of trench - \$3.17 distribution system, excluding feeder.

		Credit to Applicant's Contribution	
		Backbone	Service
1. Where density is 6.0 or more dwelling units per acre:			
1.1 Buildings that do not exceed four units, townhouses, and mobile homes per service lateral.	\$121.18		\$98.94
1.2 Mobile homes having Customer-owned services from meter center installed adjacent to the FPL primary trench route per dwelling unit.			
1. When no contribution is charged:	N/A		N/A
2. When a contribution is charged:	\$100.21		N/A
2. Where density is 0.5 or greater, but less than 6.0 dwelling units per acre:			
Buildings that do not exceed four units, townhouses, and mobile homes per service lateral.	\$200.71		\$178.10

- b) Credits will be allowed to the Applicant's contribution in sectionSection 10.3.2.a) where, by mutual agreement, the Applicant installs a portion of all Company-provided PVC conduit, excluding feeder per FPL instructions (per foot of conduit): 2" PVC - \$0.55; larger than 2" PVC - \$0.77.

This credit is:

1. Where density is 6.0 or more dwelling units per acre:			
		Backbone	Service
1.1 Buildings that do not exceed four units, townhouses, and mobile homes per service lateral.	\$50.47		\$34.12

~~(Continued on Sheet No. 6.115)~~

- c) Credit will be allowed to the Applicant's contribution in section 10.3.2., where, by mutual agreement, the Applicant installs an FPL-provided feeder splice box, per FPL instructions, per box - \$606.46.
- d) Credit will be allowed to the Applicant's contribution in section 10.3.2., where by mutual agreement, the Applicant installs an FPL-provided primary splice box, per FPL instructions, per box - \$212.37.
- e) Credit will be allowed to the Applicant's contribution in section 10.3.2., where, by mutual agreement, the Applicant installs an FPL-provided secondary handhole, per FPL instructions, per handhole: 17" handhole - \$19.70; 24" or 30" handhole - \$55.83.
- f) Credit will be allowed to the Applicant's contribution in section 10.3.2., where, by mutual agreement, the Applicant installs an FPL-provided concrete pad for a pad-mounted transformer or capacitor bank, per FPL instructions, per pad - \$54.74.
- g) Credit will be allowed to the Applicant's contribution in Section 10.3.2., where, by mutual agreement, the Applicant installs a portion of Company-provided flexible HDPE conduit, per FPL instructions (per foot of conduit): \$0.11.
- h) Credit will be allowed to the Applicant's contribution in Section 10.3.2., where, by mutual agreement, the Applicant installs an FPL-provided concrete pad and cable chamber for a pad-mounted feeder switch, per pad and cable chamber - \$515.60.

(Continued from Sheet No. 6.110)

1.2 Mobile homes having Customer-owned services from meter center installed adjacent to the FPL primary trench route per dwelling unit.		
1. When no contribution is charged:	N/A	N/A
2. When a contribution is charged:	\$39.91	N/A
2. Where density is .5 or greater, but less than 6.0 dwelling units per acre, per service lateral.		
	\$82.73	\$47.77
c) Credits will be allowed to the Applicant's contribution in Section 10.3.2, where, by mutual agreement, the Applicant provides a portion of trenching and backfilling for the Company's facilities, per foot of trench — \$2.83.		
d) Credits will be allowed to the Applicant's contribution in section 10.3.2, where, by mutual agreement, the Applicant installs a portion of Company-provided PVC conduit, per FPL instructions (per foot of conduit): 2" PVC — \$0.49; larger than 2" PVC — \$0.68.		
e) Credit will be allowed to the Applicant's contribution in section 10.3.2, where, by mutual agreement, the Applicant installs an FPL-provided feeder splice box, per FPL instructions, per box — \$717.45.		
f) Credit will be allowed to the Applicant's contribution in section 10.3.2, where, by mutual agreement, the Applicant installs an FPL-provided primary splice box, per FPL instructions, per box — \$189.11.		
g) Credit will be allowed to the Applicant's contribution in section 10.3.2, where, by mutual agreement, the Applicant installs an FPL-provided secondary handhole, per FPL instructions, per handhole: 17" handhole — \$17.55; 24" or 30" handhole — \$49.71.		
h) Credit will be allowed to the Applicant's contribution in section 10.3.2, where, by mutual agreement, the Applicant installs an FPL-provided concrete pad for a pad-mounted transformer or capacitor bank, per FPL instructions, per pad — <del>\$20.24</del> .		
i) Credit will be allowed to the Applicant's contribution in Section 10.3.2, where, by mutual agreement, the Applicant installs a portion of Company-provided flexible HDPE conduit, per FPL instructions (per foot of conduit): \$0.10.		
j) Credit will be allowed to the Applicant's contribution in Section 10.3.2, where, by mutual agreement, the Applicant installs an FPL-provided concrete pad and cable chamber for a pad-mounted feeder switch, per pad and cable chamber — \$459.13.		

RESERVED FOR FUTURE USE

### SECTION 10.4 UNDERGROUND SERVICE LATERALS FROM OVERHEAD ELECTRIC DISTRIBUTION SYSTEMS

#### 10.4.1. New Underground Service Laterals

When requested by the Applicant, the Company will install underground service laterals from overhead systems to newly constructed residential buildings containing less than five separate dwelling units.

#### 10.4.2. Contribution by Applicant

a) The Applicant shall pay the Company the following differential cost between an overhead service and an underground service lateral, as follows:

	<u>Applicant's Contribution</u>
1. For any density:	
Buildings that do not exceed four units, townhouses, and mobile homes	
a) per service lateral (includes service riser installation)	<del>\$650.51</del> 699.77
b) per service lateral (from existing handhole or PM TX)	<del>\$322.96</del> 378.34
2. For any density, the Company will provide a riser to a handhole at the base of a pole	<del>\$621.15</del> 711.00

Additional charges specified in Paragraphs 10.2.10 and 10.2.11 may also apply. Underground service or secondary extensions beyond the boundaries of the property being served will be subject to additional differential costs as determined by individual cost estimates.

#### 10.4.3. Contribution Adjustments

a) Credit will be allowed to the Applicant's contribution in Section 10.4.2 where, by mutual agreement, the Applicant provides trenching and backfilling for the Company's facilities. This credit is:

	<u>Credit To Applicant's Contribution</u>
1. For any density:	
Buildings that do not exceed four units, townhouses, and mobile homes	
- per foot	<del>\$2.83</del> 3.17

(Continued on Sheet No. 6.125)

(Continued from Sheet No. 6.120)

- b) Credit will be allowed to the Applicant's contribution in Section 10.4.2, where by mutual agreement, the Applicant installs Company-provided conduit, per FPL instructions, as follows:

1. For any density:

Buildings that do not exceed four units,  
townhouses, and mobile homes

- per foot:	2" PVC	\$0.4955
	Larger than 2" PVC	\$0.6877

- c) Credit will be allowed to the Applicant's contribution in Section 10.4.2, where by mutual agreement, the Applicant requests the underground service to be installed as a TUG (subject to the conditions specified in Section 10.2.8.1), per service lateral, as follows:

1. For any density:

Buildings that do not exceed four units,  
townhouses, and mobile homes

-per service lateral:	\$48.7454.74
-----------------------	--------------



### SECTION 10.5 UNDERGROUND SERVICE LATERALS REPLACING EXISTING RESIDENTIAL OVERHEAD AND UNDERGROUND SERVICES

#### 10.5.1. Applicability

When requested by the Applicant, the Company will install underground service laterals from existing systems as replacements for existing overhead and underground services to existing residential buildings containing less than five individual dwelling units.

#### 10.5.2. Rearrangement of Service Entrance

The Applicant shall be responsible for any necessary rearranging of his existing electric service entrance facilities to accommodate the proposed underground service lateral in accordance with the Company's specifications.

#### 10.5.3 Trenching and Conduit Installation

The Applicant shall also provide, at no cost to the Company, a suitable trench, perform the backfilling and any landscape, pavement or other similar repairs and install Company provided conduit according to Company specifications. When requested by the Applicant and approved by the Company, the Company may supply the trench and conduit and the Applicant shall pay for this work based on a specific cost estimate. Should paving, grass, landscaping or sprinkler systems need repair or replacement during construction, the Applicant shall be responsible for restoring the paving, grass, landscaping or sprinkler systems to the original condition.

#### 10.5.4. Contribution by Applicant

- a) The charge per service lateral replacing an existing Company-owned overhead service for any density shall be:

Applicant's  
Contribution

- |  |                                    |
|--|------------------------------------|
| 1. Where the Company provides an underground service lateral:                | \$ <del>566.59</del> <u>622.26</u> |
| 2. Where the Company provides a riser to a handhole at the base of the pole: | \$ <del>746.03</del> <u>867.98</u> |

- b) The charge per service lateral replacing an existing Company-owned underground service at Applicant's request for any density shall be:

- |   |                                    |
|---|------------------------------------|
| 1. Where the service is from an overhead system:    | \$ <del>439.87</del> <u>711.91</u> |
| 2. Where the service is from an underground system: | \$ <del>364.29</del> <u>620.97</u> |

- c) The charge per service lateral replacing an existing Customer-owned underground service from an overhead system for any density shall be:

\$~~441.71~~465.29

- d) The charge per service lateral replacing an existing Customer-owned underground service from an underground system for any density shall be:

\$~~114.16~~143.85

The above charges include conversion of the service lateral from the last FPL pole to the meter location. Removal of any other facilities such as poles, downguys, spans of secondary, etc. will be charged based on specific cost estimates for the requested additional work.

**UNDERGROUND ROAD/PAVEMENT CROSSING AGREEMENT**

This Agreement, made this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by and between \_\_\_\_\_ (hereinafter called the Customer) and Florida Power & Light Company, a corporation organized and existing under the laws of the State of Florida (hereinafter called FPL).

WHEREAS the Customer has requested the pre-approval of the location and installation of underground distribution facilities to be located under a dedicated roadbed described as follows:

Project Name \_\_\_\_\_ Phase \_\_\_\_\_

**WITNESSETH**

That, for and in consideration of the covenants and agreements herein set forth, the parties hereto covenant and agree as follows:

**1. The Customer shall:**

- a) Install conduit and cable markers provided by FPL in accordance with the instructions and specifications attached to this Agreement,
- b) provide reasonable notification of the conduit installation date and allow FPL to inspect the conduit installation prior to backfilling the trench created for the underground distribution facility,
- c) at the request of FPL, correct any discrepancies found in the installation that are inconsistent with the instructions and specifications attached to this Agreement, or pay FPL the associated cost to correct the installation, and
- d) provide survey control points for FPL to stake the road/pavement crossing.

**2. FPL shall:**

- a) provide instructions and specifications for the installation of FPL-provided conduit,
- b) provide conduit and cable markers to the Customer for the installation of underground facilities at the specified road/pavement crossing,
- c) provide staking for the Customer at the specified road/pavement crossing,
- d) inspect the underground distribution facilities prior to the backfilling of the trench to insure proper installation of said facilities, and
- e) apply a credit in the amount of \$ \_\_\_\_\_ in the event that the Customer has made or has agreed to make a contribution in aid of construction for other underground distribution facilities associated with this Agreement (~~if the credit exceeds the contribution, or if no contribution is required, a payment shall be made to the customer~~).

3. This agreement is subject to FPL's General Rules and Regulations for Electric Service and the Rules of the Florida Public Service Commission.

**IN WITNESS WHEREOF** the parties hereto have caused the Agreement to be duly executed to be effective as of the day and year first written above:

**APPLICANT:**

SIGNED \_\_\_\_\_

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

**FPL:**

SIGNED \_\_\_\_\_

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

**Issued by:** S. E. Romig, Director, Rates and Tariffs**Effective:** March 7, 2003

**FINAL TARIFF**  
**URD**

## SECTION 10.2 GENERAL

10.2.1. Application

Underground electric distribution facilities are offered in lieu of overhead facilities in accordance with these Rules and Regulations for:

- a) New Residential Subdivisions and Developments.
- b) New Service Laterals from Overhead Systems.
- c) Replacement of Existing Overhead and Underground Service Laterals.
- d) New Multiple-Occupancy Residential Buildings.

10.2.2. Early Notification and Coordination

In order for the Company to provide service when required, it is necessary that the Applicant notify the Company during the early stages of planning major projects. Close coordination is necessary throughout the planning and construction stages by the Company, the architect, the builder, the subcontractors and the consulting engineer to avoid delays and additional expense. Particular attention must be given to the scheduling of the construction of paved areas and the various subgrade installations of the several utilities. Failure of the Applicant to provide such notification and coordination shall result in the Applicant paying any additional costs incurred by the Company.

10.2.3. Changes to Plans, Layout or Grade

The Applicant shall pay for any additional costs imposed on the Company by Applicant including, but not limited to, engineering design, administration and relocation expenses, due to changes made subsequent to the agreement in the subdivision or development layout or final grade.

10.2.4. Underground Installations Not Covered

Where the Applicant requests or governmental ordinance mandates underground electric facilities including -but not limited to - three phase primary feeder mains, transformers, pedestal mounted terminals, switching equipment, meter cabinets, service laterals or other electric facilities not specifically covered by these Rules and Regulations and where overhead facilities would otherwise be provided, the Applicant shall pay the Company the differential installed cost between the underground facilities and the equivalent overhead facilities as calculated by the Company. The Applicant shall also provide necessary rights of way and easements as given in Section 10.2.7.

10.2.5. Type of System Provided

The costs quoted in these rules are for underground residential distribution service laterals, secondary and primary conductors of standard Company design with cable in conduits and above-grade appurtenances. Unless otherwise stated, service provided will be 120/240 volt, single phase. If other types of facilities other than standard Company design are requested by the Applicant or required by governmental authority, the Applicant will pay the additional costs, as calculated by the Company, if any.

10.2.6. Design and Ownership

The Company will design, install, own, and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under the provisions of these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service.

10.2.7. Rights of Way and Easements

The Applicant shall record and furnish satisfactory rights of way and easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to the Company prior to the Company initiating construction. Before the Company will start construction, these rights of way and easements must be cleared by the Applicant of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners and survey control points, graded to within six inches of final grade, with soil stabilized. In addition, the Applicant shall provide stakes showing final grade along the easement. Such clearing and grading must be maintained by the Applicant during construction by the utility.

10.2.8. Contributions and Credits

The Applicant shall pay the required contribution upon receipt of written notification from the Company. No utility construction shall commence prior to execution of the Underground Distribution Facilities Installation Agreement set forth in Tariff Sheet Nos. 9.700, 9.701 and 9.702 and payment in full of the entire contribution. Where, by mutual agreement, the Applicant performs any of the work normally performed by the Company, the Applicant shall receive a credit for such work in accordance with the credit amounts contained herein, provided that the work is in accordance with Company specifications. Such credit shall not exceed the total differential costs. The credit will be granted after the work has been inspected by the Company and, in the case of Applicant-installed conduit, after the applicable conductors have been installed.

(Continued on Sheet No. 6.095)

(Continued from Sheet No. 6.090)

10.2.8.1 Credit for TUGs

If the Applicant installs the permanent electric service entrance such that FPL's service lateral can be subsequently installed and utilized to provide that building's construction service, the Applicant shall receive a credit in the amount of \$54.74 per service lateral, subject to the following requirements:

- a) TUGs must be inspected and approved by the local inspecting authority.
- b) All service laterals within the subdivision must be installed as TUGs.
- c) FPL must be able to install the service lateral, energize the service lateral, and set the meter to energize the load side of the meter can, all in a single trip. Subsequent visits other than routine maintenance or meter readings will void the credit.
- d) Thereafter, acceptance and receipt of service by the Customer shall constitute certification that the Customer has met all inspection requirements, complied with all applicable codes and rules and, subject to section 2.7 Indemnity to Company, or section 2.71 Indemnity to Company – Governmental, FPL's General Rules and Regulations, the Customer releases, holds harmless and agrees to indemnify the Company from and against loss or liability in connection with the provision of electrical services to or through such Customer-owned electrical installations.
- e) The Applicant shall be held responsible for all electric service used until the account is established in the succeeding occupant's name.

This credit applies only when FPL installs the service - it does not apply when the applicant installs the service conduits, or the service conduits and cable.

10.2.9. Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. The Applicant shall provide accessible locations for meters when the design of a dwelling unit or its appurtenances limits perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

10.2.10. Special Conditions

The costs quoted in these rules are based on conditions which permit employment of rapid construction techniques. The Applicant shall be responsible for necessary additional hand digging expenses other than what is normally provided by the Company. The Applicant is responsible for clearing, compacting, boulder and large rock removal, stump removal, paving, and addressing other special conditions. Should paving, grass, landscaping or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching and backfilling and be responsible for restoration of property damaged to accommodate the installation of underground facilities.

10.2.11. Point of Delivery

The point of delivery shall be determined by the Company and will normally be at or near the part of the building nearest the point at which the secondary electric supply is available to the property. When a location for a point of delivery different from that designated by the Company is requested by the Applicant, and approved by the Company, the Applicant shall pay the estimated full cost of service lateral length, including labor and materials, required in excess of that which would have been needed to reach the Company's designated point of service. The additional cost per trench foot is \$6.53. Where an existing trench is utilized, the additional cost per trench foot is \$2.50. Where the Applicant provides the trenching, installs Company provided conduit according to Company specifications and backfilling, the cost per additional trench foot is \$1.80. Any re-designation requested by the Applicant shall conform to good safety and construction practices as determined by the Company. Service laterals shall be installed, where possible, in a direct line to the point of delivery.

(Continued on Sheet No. 6.096)

SECTION 10.3 UNDERGROUND DISTRIBUTION FACILITIES FOR  
RESIDENTIAL SUBDIVISIONS AND DEVELOPMENTS10.3.1. Availability

When requested by the Applicant, the Company will provide underground electric distribution facilities, other than for multiple occupancy buildings, in accordance with its standard practices in:

- a) Recognized new residential subdivision of five or more building lots.
- b) Tracts of land upon which five or more separate dwelling units are to be located.

For residential buildings containing five or more dwelling units, see SECTION 10.6 of these Rules.

10.3.2. Contribution by Applicant

- a) The Applicant shall pay the Company the average differential cost for single phase residential underground distribution service based on the number of service laterals required or the number of dwelling units, as follows:

	<u>Applicant's Contribution</u>	<u>Where Applicant installs backbone trench and conduit</u>
1. Where density is 6.0 or more dwelling units per acre:		
1.1 Buildings that do not exceed four units, townhouses, and mobile homes – per service lateral.		
1. Subdivisions with 300 or more total service laterals	\$ 0.00	\$0.00
2. Subdivisions from 100 to 299 total service laterals	\$ 0.00	\$0.00
3. Subdivisions less than 100 total service laterals	\$ 5.63	\$0.00
1.2 Mobile homes having Customer-owned services from meter center installed adjacent to the FPL primary trench route - per dwelling unit.		
1. Subdivisions with 300 or more total service laterals	\$ 0.00	\$0.00
2. Subdivisions from 100 to 299 total service laterals	\$ 0.00	\$0.00
3. Subdivisions less than 100 total service laterals	\$ 0.00	\$0.00
2. Where density is 0.5 or greater, but less than 6.0 dwelling units per acre:		
Buildings that do not exceed four units, townhouses, and mobile homes – per service lateral		
1. Subdivisions with 200 or more total service laterals	\$ 12.39	\$0.00
2. Subdivisions from 85 to 199 total service laterals	\$ 242.39	\$0.00
3. Subdivisions less than 85 total service laterals	\$ 319.39	\$3.24
3. Where the density is less than 0.5 dwelling units per acre, or the Distribution System is of non-standard design, individual cost estimates will be used to determine the differential cost as specified in Paragraph 10.2.5.		

Additional charges specified in Paragraphs 10.2.10 and 10.2.11 may also apply.

- b) The above costs are based upon arrangements that will permit serving the local underground distribution system within the subdivision from overhead feeder mains. If feeder mains within the subdivision are deemed necessary by the Company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the Company the average differential cost between such underground feeder mains within the subdivision and equivalent overhead feeder mains, as follows:

	<u>Applicant's Contribution</u>
Cost per foot of feeder trench within the subdivision (excluding switches)	\$ 12.19
Cost per switch package	\$25,697.99

(Continued on Sheet No. 6.110)



(Continued from Sheet No. 6.100)

- c) Where primary laterals are needed to cross open areas such as golf courses, parks, other recreation areas and water retention areas, the Applicant shall pay the average differential costs for these facilities as follows:

Cost per foot of primary lateral trench within the subdivision

1) Single Phase - per foot	\$0.82
2) Two Phase - per foot	\$2.89
3) Three Phase - per foot	\$4.50

- d) For requests for service where underground facilities to the lot line are existing and a differential charge was previously paid for these facilities, the cost to install an underground service lateral to the meter is as follows:

Density less than 6.0 dwelling units per acre: \$378.34

Density 6.0 or greater dwelling units per acre: \$283.75

#### 10.3.3. Contribution Adjustments

- a) Credits will be allowed to the Applicant's contribution in Section 10.3.2. where, by mutual agreement, the Applicant provides a portion of trenching and backfilling for the Company's facilities, per foot of trench - \$3.17.
- b) Credits will be allowed to the Applicant's contribution in section 10.3.2. where, by mutual agreement, the Applicant installs a portion of Company-provided PVC conduit, per FPL instructions (per foot of conduit): 2" PVC - \$0.55; larger than 2" PVC - \$0.77.
- c) Credit will be allowed to the Applicant's contribution in section 10.3.2., where, by mutual agreement, the Applicant installs an FPL-provided feeder splice box, per FPL instructions, per box - \$606.46.
- d) Credit will be allowed to the Applicant's contribution in section 10.3.2., where by mutual agreement, the Applicant installs an FPL-provided primary splice box, per FPL instructions, per box - \$212.37.
- e) Credit will be allowed to the Applicant's contribution in section 10.3.2., where, by mutual agreement, the Applicant installs an FPL-provided secondary handhole, per FPL instructions, per handhole: 17" handhole - \$19.70; 24" or 30" handhole - \$55.83.
- f) Credit will be allowed to the Applicant's contribution in section 10.3.2., where, by mutual agreement, the Applicant installs an FPL-provided concrete pad for a pad-mounted transformer or capacitor bank, per FPL instructions, per pad - \$54.74.
- g) Credit will be allowed to the Applicant's contribution in Section 10.3.2., where, by mutual agreement, the Applicant installs a portion of Company-provided flexible HDPE conduit, per FPL instructions (per foot of conduit): \$0.11.
- h) Credit will be allowed to the Applicant's contribution in Section 10.3.2., where, by mutual agreement, the Applicant installs an FPL-provided concrete pad and cable chamber for a pad-mounted feeder switch, per pad and cable chamber - \$515.60.

RESERVED FOR FUTURE USE

**SECTION 10.4 UNDERGROUND SERVICE LATERALS FROM  
OVERHEAD ELECTRIC DISTRIBUTION SYSTEMS****10.4.1. New Underground Service Laterals**

When requested by the Applicant, the Company will install underground service laterals from overhead systems to newly constructed residential buildings containing less than five separate dwelling units.

**10.4.2. Contribution by Applicant**

- a) The Applicant shall pay the Company the following differential cost between an overhead service and an underground service lateral, as follows:

	<u>Applicant's Contribution</u>
1. For any density:	
Buildings that do not exceed four units, townhouses, and mobile homes	
a) per service lateral (includes service riser installation)	\$699.77
b) per service lateral (from existing handhole or PM TX)	\$378.34
2. For any density, the Company will provide a riser to a handhole at the base of a pole	\$711.00

Additional charges specified in Paragraphs 10.2.10 and 10.2.11 may also apply. Underground service or secondary extensions beyond the boundaries of the property being served will be subject to additional differential costs as determined by individual cost estimates.

**10.4.3. Contribution Adjustments**

- a) Credit will be allowed to the Applicant's contribution in Section 10.4.2 where, by mutual agreement, the Applicant provides trenching and backfilling for the Company's facilities. This credit is:

	<u>Credit To Applicant's Contribution</u>
1. For any density:	
Buildings that do not exceed four units, townhouses, and mobile homes - per foot	\$3.17

(Continued on Sheet No. 6.125)

(Continued from Sheet No. 6.120)

- b) Credit will be allowed to the Applicant's contribution in Section 10.4.2, where by mutual agreement, the Applicant installs Company-provided conduit, per FPL instructions, as follows:

1. For any density:

Buildings that do not exceed four units, townhouses, and mobile homes	
- per foot:	
	2" PVC \$0.55
	Larger than 2" PVC \$0.77

- c) Credit will be allowed to the Applicant's contribution in Section 10.4.2, where by mutual agreement, the Applicant requests the underground service to be installed as a TUG (subject to the conditions specified in Section 10.2.8.1), per service lateral, as follows:

1. For any density:

Buildings that do not exceed four units, townhouses, and mobile homes	
-per service lateral:	\$54.74

**SECTION 10.5 UNDERGROUND SERVICE LATERALS REPLACING  
EXISTING RESIDENTIAL OVERHEAD AND UNDERGROUND SERVICES**

**10.5.1. Applicability**

When requested by the Applicant, the Company will install underground service laterals from existing systems as replacements for existing overhead and underground services to existing residential buildings containing less than five individual dwelling units.

**10.5.2. Rearrangement of Service Entrance**

The Applicant shall be responsible for any necessary rearranging of his existing electric service entrance facilities to accommodate the proposed underground service lateral in accordance with the Company's specifications.

**10.5.3. Trenching and Conduit Installation**

The Applicant shall also provide, at no cost to the Company, a suitable trench, perform the backfilling and any landscape, pavement or other similar repairs and install Company provided conduit according to Company specifications. When requested by the Applicant and approved by the Company, the Company may supply the trench and conduit and the Applicant shall pay for this work based on a specific cost estimate. Should paving, grass, landscaping or sprinkler systems need repair or replacement during construction, the Applicant shall be responsible for restoring the paving, grass, landscaping or sprinkler systems to the original condition.

**10.5.4. Contribution by Applicant**

- a) The charge per service lateral replacing an existing Company-owned overhead service for any density shall be:

Applicant's  
Contribution

- |  |          |
|--|----------|
| 1. Where the Company provides an underground service lateral:                | \$622.26 |
| 2. Where the Company provides a riser to a handhole at the base of the pole: | \$867.98 |

- b) The charge per service lateral replacing an existing Company-owned underground service at Applicant's request for any density shall be:

- |   |          |
|---|----------|
| 1. Where the service is from an overhead system:    | \$711.91 |
| 2. Where the service is from an underground system: | \$620.97 |

- c) The charge per service lateral replacing an existing Customer-owned underground service from an overhead system for any density shall be:
- \$465.29

- d) The charge per service lateral replacing an existing Customer-owned underground service from an underground system for any density shall be:
- \$143.85

The above charges include conversion of the service lateral from the last FPL pole to the meter location. Removal of any other facilities such as poles, downguys, spans of secondary, etc. will be charged based on specific cost estimates for the requested additional work.

**UNDERGROUND ROAD/PAVEMENT CROSSING AGREEMENT**

This Agreement, made this \_\_\_\_\_ day of \_\_\_\_\_, by and between \_\_\_\_\_ (hereinafter called the Customer) and Florida Power & Light Company, a corporation organized and existing under the laws of the State of Florida (hereinafter called FPL).

WHEREAS the Customer has requested the pre-approval of the location and installation of underground distribution facilities to be located under a dedicated roadbed described as follows:

Project Name \_\_\_\_\_ Phase \_\_\_\_\_

**WITNESSETH**

That, for and in consideration of the covenants and agreements herein set forth, the parties hereto covenant and agree as follows:

**1. The Customer shall:**

- a) Install conduit and cable markers provided by FPL in accordance with the instructions and specifications attached to this Agreement,
- b) provide reasonable notification of the conduit installation date and allow FPL to inspect the conduit installation prior to backfilling the trench created for the underground distribution facility,
- c) at the request of FPL, correct any discrepancies found in the installation that are inconsistent with the instructions and specifications attached to this Agreement, or pay FPL the associated cost to correct the installation, and
- d) provide survey control points for FPL to stake the road/pavement crossing.

**2. FPL shall:**

- a) provide instructions and specifications for the installation of FPL-provided conduit,
- b) provide conduit and cable markers to the Customer for the installation of underground facilities at the specified road/pavement crossing,
- c) provide staking for the Customer at the specified road/pavement crossing,
- d) inspect the underground distribution facilities prior to the backfilling of the trench to insure proper installation of said facilities, and
- e) apply a credit in the amount of \$ \_\_\_\_\_ in the event that the Customer has made or has agreed to make a contribution in aid of construction for other underground distribution facilities associated with this Agreement.

3. This agreement is subject to FPL's General Rules and Regulations for Electric Service and the Rules of the Florida Public Service Commission.

**IN WITNESS WHEREOF** the parties hereto have caused the Agreement to be duly executed to be effective as of the day and year first written above:

**APPLICANT:**

SIGNED \_\_\_\_\_

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

**FPL:**

SIGNED \_\_\_\_\_

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

**APPENDIX 2**  
**URD**

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**APPENDIX NO. 2**  
**FPL 2010**  
**Explanation of Proposed Revisions**

This Appendix summarizes proposed revisions to the Rules and Regulations included in Section 10 (and applicable forms) of FPL's General Rules and Regulations for Electric Service. An explanation of FPL's proposed tariff charges for underground installations can be found in Appendix No. 3.

For the per-service lateral charges, Rule 25-6.078(4), F.A.C. requires that each utility's tariff differentials reflect the net present value of operational costs, including average historical storm restoration. FPL's proposed tariff charges comply with the rule and reflect the terms of the "Stipulation and Settlement Agreement" in Docket Nos. 080244-EI, 070231-EI and 080522-EI".

Sheet 6.090: Added "Such credit shall not exceed the total differential costs" to clarify that credits provided for customer work can not exceed the differential charges (per FAC 25-6.078 paragraph 7).

Sheets 6.110 - 6.115: Removed individual credits for customer provided work. These individual credits have been replaced by a reduced per service lateral charge if the customer provides the trench and installation of the FPL provided conduit.

Sheet 9.715: Removed language indicating a payment would be made to the applicant if the conduit installation credit exceeds the contribution (per FAC 25-6.078, paragraph 7).



**APPENDIX 3**  
**URD**

## APPENDIX NO. 3

FPL - 2010

### BASIS FOR UNDERGROUND RESIDENTIAL DISTRIBUTION DIFFERENTIAL

**New Underground Subdivision with Overhead Feeder Mains.** The average differential costs for Underground Residential Distribution (URD) stated in the FPL Rules and Regulations were derived from cost estimates of underground facilities and their equivalent overhead designs. The high density subdivision used for these estimates was developed by the group of Florida Electric Utilities in response to Florida Public Service Commission Orders No. 6031 and 6031-B. The low density subdivision was also developed by the group of Florida Electric Utilities and was approved by Florida Public Service Commission Order No. PSC-96-0026-FOF-EI. They represent average conditions in Florida Subdivisions served by FPL. Densities range from 0.5 to 6.0 lots per acre for low density subdivisions. The low density subdivision contains 210 lots; the high density subdivision 176 lots. Subdivision plats are shown in Exhibits IV and XI. Differential cost estimates were made from engineering layouts of underground and overhead facilities. These included primary laterals, transformers, secondary lines and services, but not three phase feeders. These estimates employed standard Company design and estimating practices and the system-wide unit cost for labor and material which were in use at the end of 2009. Design criteria included the following:

Design Customer Demand	-	7.25 KVA, including 2 1/2 tons of air conditioning for high density model and 9.35 KVA including 3 1/2 tons of air conditioning for low density model according to DERM.(1)
Primary Voltage	-	13200/7620 Volts
Underground Design	-	Rear/Front lot construction - All C-I-C (2)
Overhead Design	-	Front lot construction, extreme wind (145 MPH)

(1) FPL Distribution Engineering Reference Manual

(2) All cables are to be installed in PVC conduit.

For the per-service lateral charges, the tariff differentials reflect the net present value of operational costs, including average historical storm restoration, as contemplated by Rule 25-6.078(4), F.A.C. FPL has addressed operational cost differential as two separate components, covering non-storm and storm costs. For non-storm costs, FPL's proposed tariff charges reflect the terms of the "Stipulation and Settlement Agreement" in Docket Nos. 080244-EI, 070231-EI and 080522-EI". For storm costs, FPL's starting point was the same data on storm restoration costs that it presented to the Commission in justifying the 25% GAF Waiver for eligible governmental underground conversion projects. One of the principal assumptions in calculating the storm restoration cost savings for GAF projects was that, because they covered large, contiguous areas, there would be no need for overhead restoration crews to go into the project neighborhoods and, hence, the savings would be maximized. However, because not all URD projects will involve a large, contiguous area like that of a GAF project, FPL has developed three tiers of storm cost differentials for the URD tariff. Tier 1 is for large "GAF-equivalent" projects, which would meet the GAF size and uniformity requirements. The storm cost differential for Tier 1 projects reflects the same savings as were used to justify the GAF Waiver, expressed on a per lot basis. Tier 2 is for smaller projects (1-3 pole line miles) but otherwise meet the GAF eligibility criteria. Tier 2 projects receive 40% of the full GAF savings. Finally, Tier 3 is for small projects that do not necessarily meet any of the GAF eligibility

criteria; for them, the storm cost differential is 20% of the GAF savings. FPL does not believe that there is a significant difference in the storm cost differentials for low-density versus high-density projects, so the Tier 1, 2 and 3 reductions apply regardless of the project density

Estimates are broken down into a uniform format adopted as a standard by the participating companies (Exhibit I-X).

Case 1. Low Density

Where density is 0.5 or greater, but less than 6 dwelling units per acre: Buildings that do not exceed four units, townhouses, and mobile homes -- per service lateral.

Case 2. High Density

Where density is 6.0 or more dwelling units per acre: Buildings that do not exceed four units, townhouses, and mobile homes -- per service lateral.

Case 3. Meter Pedestal

Where density is 6.0 or more dwelling units per acre: Mobile homes having Customer-owned services from meter centers installed adjacent to the FPL centers installed adjacent to the FPL primary trench route -- per dwelling unit.

<u>Low Density</u>	<u>Operational Cost / Lot</u>			<u>Cost Differential</u>
	<u>Non-Storm</u>	<u>Storm</u>	<u>Total</u>	
Pre-Operational Cost				\$396.39
Post-Operational Cost				
Tier 1 (Full GAF) - 200 or more lots	\$0	(\$384)	(\$384)	\$12.39
Tier 2 (40% GAF) - 85 to 199 lots	\$0	(\$154)	(\$154)	\$242.39
Tier 3 (20% GAF) - less than 85 lots	\$0	(\$77)	(\$77)	\$319.39

<u>High Density</u>	<u>Operational Cost / Lot</u>			<u>Cost Differential</u>
	<u>Non-Storm</u>	<u>Storm</u>	<u>Total</u>	
Pre-Operational Cost				\$82.63
Post-Operational Cost				
Tier 1 (Full GAF) - 300 or more lots	\$0	(\$384)	(\$384)	\$0.00
Tier 2 (40% GAF) - 100 to 299 lots	\$0	(\$154)	(\$154)	\$0.00
Tier 3 (20% GAF) - less than 100 lots	\$0	(\$77)	(\$77)	\$5.63

<u>Meter Pedestal</u>	<u>Operational Cost / Lot</u>			<u>Cost Differential</u>
	<u>Non-Storm</u>	<u>Storm</u>	<u>Total</u>	
Pre-Operational Cost				\$0.00
Post-Operational Cost				
Tier 1 (Full GAF) - 300 or more lots	\$0	(\$384)	(\$384)	\$0.00
Tier 2 (40% GAF) - 100 to 299 lots	\$0	(\$154)	(\$154)	\$0.00
Tier 3 (20% GAF) - less than 100 lots	\$0	(\$77)	(\$77)	\$0.00

Note 1

Note 1: The "Pre-Operational Cost" differential has been reduced to \$0 since it is a negative amount (-189.86). However, the negative amount has been applied to determine the "Post-Operational Cost" differentials. Since the "Post-Operational" Costs are also negative, the differentials have been set to \$0.

**10.4.2 UG Service Laterals from Overhead Lines.** Service lateral costs are included in the differential costs previously stated except in Case 3. The costs of service laterals were estimated separately to determine the differential cost between a standard overhead service and a similar length underground service from an overhead line. This differential cost was calculated by adding the differential service lateral cost to the pole-conduit terminal cost. The average pole-conduit terminal cost was found to be \$321.44 per service lateral.

Service lateral cost.....	\$378.33
Pole-conduit cost.....	\$321.44
Total cost.....	<u>\$699.77</u>
Round To.....	\$699.77

A URD riser to a handhole at the base of the pole had a differential cost of \$711.01

**10.5.4 Replacement of an Existing Service with an Underground Service.**

Costs were also estimated for replacing existing services with underground service laterals. These costs were based on the applicant providing the trench because of the wide variations in the cost of excavating established, landscaped area. Additional costs are associated with removal and premature retirement of existing services. Accordingly, adjustments were made to the cost of a new service lateral by adding the costs involved with the retirement of an existing service drop and subtracting trenching costs. The costs were estimated to be:

**A. Cost per service lateral to replace Company-owned Overhead Service with:**

	Company UG Service	Riser to Handhole
UG service lateral cost.....	\$699.77	\$0.00
Riser to handhole cost.....	\$0.00	\$711.01
Less trenching credit.....	(\$200.00)	\$0.00
Less conduit installation credit.....	(\$34.48)	\$0.00
Remaining value of existing service.....	\$112.27	\$112.27
Removal cost of existing service.....	\$44.70	\$44.70
Salvage.....	<u>\$0.00</u>	<u>\$0.00</u>
Total cost.....	\$622.26	\$867.98
Round To.....	\$622.26	\$867.98

**B. Cost per service lateral to replace Company-owned Underground Service.**

	<u>OH Source</u>	<u>UG Source</u>
UG service lateral cost.....	\$378.33	\$378.33
Handhole for connection to existing riser X .25.....	\$90.94	\$0.00
Less trenching credit.....	(\$200.00)	(\$200.00)
Less conduit credit.....	(\$34.48)	(\$34.48)
Remaining value of existing service.....	\$449.23	\$449.23
Removal cost of existing service.....	\$27.89	\$27.89
Salvage.....	<u>\$0.00</u>	<u>\$0.00</u>
Total Cost.....	\$711.91	\$620.97
Round To.....	\$711.91	\$620.97

**C. Cost to replace Customer-owned Underground Service from an Overhead System.**

UG service lateral cost.....	\$378.33
Pole-conduit cost.....	\$321.44
Less trenching credit.....	(\$200.00)
Less conduit installation credit.....	<u>(\$34.48)</u>
TOTAL.....	\$465.29
Round To.....	\$465.29

**D. Cost to replace Customer-owned Underground Service from an Underground System.**

UG service lateral cost.....	\$378.33
Less trenching credit.....	(\$200.00)
Less conduit installation credit.....	<u>(\$34.48)</u>
TOTAL.....	\$143.85
Round To.....	\$143.85

**Underground Feeder/Lateral Cost.** Cost estimates were made for underground and overhead feeders and laterals necessary to serve residential communities in the model subdivisions. The average differential costs per foot were then determined. These results are shown in Exhibit XII.

Underground feeders/laterals were assumed to be installed in conduit with above grade switch cabinets. Overhead feeder costs included wood pole costs.

**Cumulative Overhead and Underground Customers.** The cumulative total of overhead and underground customers as of December 31, 2009 served by FPL are as follows:

Underground .....	3,164,361
Overhead .....	1,755,040
Total* .....	4,919,401

NOTES: 1. Many of the underground systems are supplied by overhead feeders and laterals.

\*2. This figure includes inactive meters and outdoor lighting.

**APPENDIX 4**  
**URD**

**LOW DENSITY**



COMPANY: FPL

DATE: 03/15/10

OVERHEAD VS. UNDERGROUND SUMMARY SHEET

Low Density 210 Lot Subdivision  
Cost per Service Lateral

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$986.99	\$1,391.74	\$404.75
MATERIAL	\$936.47	\$928.11	(\$8.36)
<b>TOTAL</b>	<b>\$1,923.46</b>	<b>\$2,319.85</b>	<b>\$396.39</b>

COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

## Low Density 210 Lot Subdivision

ITEM	MATERIAL(1)	LABOR(4)	TOTAL
Service(2)	\$94.95	\$146.08	\$241.03
Primary	\$29.03	\$106.38	\$135.41
Secondary	\$129.78	\$179.96	\$309.74
Initial Tree Trim	-----	-----	-----
Poles	\$230.99	\$305.09	\$536.08
Transformers	\$202.28	\$38.07	\$240.35
Sub-Total	\$687.03	\$775.58	\$1,462.61
Stores Handling(3)	\$48.85	-----	\$48.85
SubTotal	\$735.88	\$775.58	\$1,511.46
Engineering(5)	\$200.59	\$211.41	\$412.00
TOTAL(6)	\$936.47	\$986.99	\$1,923.46

1 - Includes Sales Tax.

2 - Includes Meters.

3 - 7.11 % of All Material.

4 - Includes Payroll, Taxes, Insurance, Pension & Welfare, & Transportation.

5 - 27.258 % of All Material and Labor.

6 - Does not include storm or operational costs.

COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

## Low Density 210 Lot Subdivision

ITEM	MATERIAL(1)	LABOR(4)	TOTAL
Service(2)	\$126.77	\$296.31	\$423.08
Primary	\$224.79	\$232.41	\$457.20
Secondary	\$102.79	\$82.17	\$184.96
Transformers	\$228.43	\$18.30	\$246.73
Prim. & Sec. Trenching	-----	\$246.09	\$246.09
Service Trenching	-----	\$218.36	\$218.36
Sub-Total	\$682.78	\$1,093.64	\$1,776.42
Stores Handling(3)	\$46.53	-----	\$46.53
SubTotal	\$729.31	\$1,093.64	\$1,822.95
Engineering(5)	\$198.80	\$298.10	\$496.90
TOTAL(6)	\$928.11	\$1,391.74	\$2,319.85

1 - Includes Sales Tax.

2 - Includes Meters.

3 - 7.11 % of All Material.

4 - Includes Payroll, Taxes, Insurance, Pension & Welfare, & Transportation.

5 - 27.258 % of All Material and Labor.

6 - Does not include storm or operational costs.





**2010 OH LOW DENSITY LAYOUT WITH 3.5 TON A/C**

WR Number:  
3639525

	2008	2010
NUMBER OF LOTS =	210	210
MECA STORES LDG % =	6.24%	6.24%
ACTUAL STORES LDG % =	5.76%	7.11%
ACTUAL EO =	19.08%	27.26%
ADJUSTED CO =	6.87%	9.18%

CLASSIFICATION	ACCOUNT	MATERIAL W/O CO 2008	MATERIAL W/O CO 2010	MATERIAL COST/LOT WITH CO 2008	MATERIAL COST/LOT WITH CO 2010	LABOR W/O CO 2008	LABOR W/O CO 2010	LABOR COST/LOT WITH CO 2008	LABOR COST/LOT WITH CO 2010	TOTAL LABOR & MATERIAL 2008	TOTAL LABOR & MATERIAL 2010
SERVICE	369.101	\$0.00	\$0.00			\$0.00	\$0.00				
SERVICE	369.100	\$15,926.40	\$13,072.63			\$21,216.53	\$23,105.47				
MTR.INST.(LAB)	586.380					\$4,585.75	\$4,992.54				
MTR.COST(MAT)		\$5,052.60	\$5,957.70	\$24.06	\$28.37						
SERVICE SUBT W/O STORES LDG		\$20,043.56	\$18,262.51	\$102.00	\$94.95	\$25,802.28	\$28,098.01	\$131.31	\$146.08	\$233.31	\$241.03
PRIMARY	365.002	\$7,553.29	\$5,931.51			\$23,286.02	\$20,461.07				
PRIMARY	365.999	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY SUBT W/O STORES LDG		\$7,109.65	\$5,583.12	\$36.18	\$29.03	\$23,286.02	\$20,461.07	\$118.50	\$106.38	\$154.68	\$135.41
SECONDARY	365.040	\$5,162.83	\$4,054.31			\$15,936.03	\$14,002.96				
SECONDARY	365.091	\$9,600.63	\$22,464.08			\$6,184.98	\$20,590.64				
SECONDARY	365.095	\$0.00	\$0.00			\$0.00	\$0.00				
SECONDARY	594.680	\$0.86	\$0.98			\$19.64	\$21.40				
SECONDARY	365.999	\$0.00	\$0.00			\$0.00	\$0.00				
SEC SUBT W/O STORES LDG		\$13,897.14	\$24,961.76	\$70.72	\$129.78	\$22,140.65	\$34,614.99	\$112.67	\$179.96	\$183.39	\$309.74
TREE TRIM(L)											
POLES	364.130	\$0.00	\$0.00			\$0.00	\$0.00				
POLES	364.135	\$36,968.56	\$47,200.86			\$57,195.96	\$58,682.82				
POLES	364.140	\$0.00	\$0.00			\$0.00	\$0.00				
POLES	364.999	\$0.00	\$0.00			\$0.00	\$0.00				
POLE SUBT W/O STORES LDG		\$34,797.21	\$44,428.52	\$177.08	\$230.99	\$57,195.96	\$58,682.82	\$291.07	\$305.09	\$468.15	\$536.08
TRANSFORMER	583.180	\$0.00	\$0.00			\$0.00	\$0.00				
TRANSFORMER	583.280	\$0.00	\$0.00			\$11,716.88	\$7,322.35				
TRANSFORMER PLANT (MAT)	368	\$30,373.37	\$38,906.61								
TRANSFORMER SUBTOTAL		\$30,373.37	\$38,906.61	\$154.57	\$202.28	\$11,716.88	\$7,322.35	\$59.63	\$38.07	\$214.20	\$240.35
SUB-TOTAL		\$106,220.93	\$132,142.52	\$540.55	\$687.03	\$140,141.79	\$149,179.24	\$713.18	\$775.58	\$1,253.73	\$1,462.61
MATERIAL SUBTOTAL MINUS METER MATERIAL				\$516.49	\$658.66						
STORES LDG. %				5.76%	7.11%						
METER STORES LDG %				5.76%	7.11%						
TOTAL STORES LDG \$				\$31.14	\$48.85					\$31.14	\$48.85
SUBTOTAL				\$571.69	\$735.88			\$713.18	\$775.58	\$1,284.87	\$1,511.46
EO				\$109.09	\$200.59			\$136.09	\$211.41	\$245.18	\$412.00
TOTAL				\$680.78	\$936.47			\$849.27	\$986.99	\$1,530.05	\$1,923.46

## 2010 UG LOW DENSITY LAYOUT WITH 3.5 TON A/C

WR Number  
1459058

	2008	2010
NUMBER OF LOTS =	210	210
MECA STORES LDG % =	6.24%	6.24%
ACTUAL STORES LDG =	5.76%	7.11%
ACTUAL EO =	19.082%	27.258%
ADJUSTED CO =	6.868%	9.180%

CLASSIFICATION	ACCOUNT	MATERIAL W/O CO	MATERIAL W/O CO	MATERIAL COST/LOT WITH CO	MATERIAL COST/LOT WITH CO	LABOR W/O CO	LABOR W/O CO	LABOR COST/LOT WITH CO	LABOR COST/LOT WITH CO	TOTAL LABOR & MATERIAL	TOTAL LABOR & MATERIAL
		2008	2010	2008	2010	2008	2010	2008	2010	2008	2010
SERVICE	369.699	\$25,396.27	\$19,575.76			\$84,044.96	\$94,001.99				
SERVICE	369.600	\$0.00	\$0.00			\$0.00	\$0.00				
MTR.INST.(L)	586.380					\$4,585.75	\$4,992.54				
MTR.COST(M)		\$5,052.60	\$5,957.70	\$24.06	\$28.37						
SERVICE TRENCH						(\$37,400.15)	(\$42,000.35)				
SERVICE SUBT W/O STORES LDG		\$28,957.22	\$24,383.68	\$147.36	\$126.77	\$51,230.56	\$56,994.18	\$260.71	\$296.31	\$408.07	\$423.08
PRIMARY	365.999	\$668.17	\$579.05			\$1,034.58	\$934.34				
PRIMARY	366.201	\$23,355.85	\$18,430.26			\$71,915.32	\$77,185.13				
PRIMARY	593.180	\$191.38	\$197.30			\$342.75	\$538.96				
PRIMARY	366.203	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY		\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	367.201	\$26,427.43	\$26,729.00			\$13,496.01	\$13,378.64				
PRIMARY		\$0.00	\$0.00			\$0.00	\$0.00				
PRI/SEC TRENCH						(\$42,149.38)	(\$47,333.73)				
PRIMARY SUBT W/O STORES LDG		\$47,668.33	\$43,237.59	\$242.58	\$224.79	\$44,639.29	\$44,703.33	\$227.17	\$232.41	\$469.75	\$457.20
SECONDARY	367.122	\$27,113.15	\$21,005.66			\$15,865.08	\$15,805.27				
SEC SUBT W/O STORES LDG		\$25,520.66	\$19,771.89	\$129.87	\$102.79	\$15,865.08	\$15,805.27	\$80.74	\$82.17	\$210.61	\$184.96
TRANSFORMER	583.280	\$0.00	\$0.00			\$1,474.13	\$1,655.18				
TRANSFORMER	366.801	\$2,576.01	\$2,337.40			\$1,193.62	\$1,865.37				
TRANSFORMER	PLANT (MAT) 368	\$38,906.08	\$41,736.78								
TRANSFORMER SUBTOTAL		\$41,330.79	\$43,936.89	\$210.33	\$228.43	\$2,667.75	\$3,520.55	\$13.58	\$18.30	\$223.91	\$246.73
PRI/SEC TRENCH						\$42,149.38	\$47,333.73	\$214.50	\$246.09	\$214.50	\$246.09
SVC TRENCH						\$37,400.15	\$42,000.35	\$190.33	\$218.36	\$190.33	\$218.36
SUB-TOTAL		\$143,477.00	\$131,330.05	\$730.14	\$682.78	\$193,952.20	\$210,357.42	\$987.03	\$1,093.64	\$1,717.17	\$1,776.42
MATERIAL SUBTOTAL MINUS METER MATERIAL				\$706.08	\$654.41						
STORES LDG. %				5.76%	7.11%						
METER STORES LDG %				5.76%	7.11%						
TOTAL STORES LDG				\$40.67	\$46.53					\$40.67	\$46.53
SUBTOTAL				\$770.81	\$729.31			\$987.03	\$1,093.64	\$1,757.84	\$1,822.95
EO				\$147.09	\$198.80			\$188.35	\$298.10	\$335.44	\$496.90
TOTAL				\$917.90	\$928.11			\$1,175.38	\$1,391.74	\$2,093.28	\$2,319.85

## OPERATIONAL COSTS DIFFERENTIAL - LOW DENSITY

<u>Low Density</u>	<u>30-Year NPV (\$ per pole-line mile)</u>			<u>Cost per Lot</u>
	<u>O&amp;M</u>	<u>Capital</u>	<u>Total</u>	
Differential (Non-Storm) Note 1	-	-	-	\$0
<u>Avoided Storm Restoration</u>				
Tier 1 (Full GAF) - 200 or more lots	(\$33,091)		(\$33,091)	(\$384)
Tier 2 (40% GAF) - 85 to 199 lots	(\$13,236)		(\$13,236)	(\$154)
Tier 3 (20% GAF) - less than 85 lots	(\$6,618)		(\$6,618)	(\$77)
				<u>Cost</u>
<u>Low Density</u>				<u>Differential</u>
Pre-Operational Cost				\$396.39
Post-Operational Cost				
Tier 1 (Full GAF) - 200 or more lots	-----			\$12.39
Tier 2 (40% GAF) - 85 to 199 lots	-----			\$242.39
Tier 3 (20% GAF) - less than 85 lots	-----			\$319.39

Note 1: The 30-year net present value of the estimated non-storm underground v. overhead operational costs differential - set at \$0 (zero) per pole-line mile of the existing overhead facilities as reflected in the terms of the "Stipulation and Settlement Agreement" in Docket Nos. 080244-EI, 070231-EI and 080522-EI.



**HIGH DENSITY**

COMPANY: FPL

DATE: 03/15/10

OVERHEAD VS. UNDERGROUND SUMMARY SHEET

High Density 176 Lot Subdivision  
Company Owned Service Laterals  
Cost per Service Lateral

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$733.29	\$962.82	\$229.53
MATERIAL	\$735.98	\$589.08	(\$146.90)
<b>TOTAL</b>	<b>\$1,469.27</b>	<b>\$1,551.90</b>	<b>\$82.63</b>

**EXHIBIT V**

COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

High Density 176 Lot Subdivision  
Company Owned Service Laterals

ITEM	MATERIAL(1)	LABOR(4)	TOTAL
Service(2)	\$79.79	\$131.86	\$211.65
Primary	\$13.25	\$56.45	\$69.70
Secondary	\$92.69	\$138.19	\$230.88
Initial Tree Trim	-----	-----	-----
Poles	\$169.88	\$221.56	\$391.44
Transformers	\$184.34	\$28.16	\$212.50
Sub-Total	\$539.95	\$576.22	\$1,116.17
Stores Handling(3)	\$38.39	-----	\$38.39
SubTotal	\$578.34	\$576.22	\$1,154.56
Engineering(5)	\$157.64	\$157.07	\$314.71
TOTAL(6)	\$735.98	\$733.29	\$1,469.27

1 - Includes Sales Tax.

2 - Includes Meters.

3 - 7.11 % of All Material.

4 - Includes Payroll, Taxes, Insurance, Pension & Welfare, & Transportation.

5 - 27.258 % of All Material and Labor.

6 - Does not include storm or operational costs

COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

High Density 176 Lot Subdivision  
Company Owned Service Laterals

ITEM	MATERIAL(1)	LABOR(4)	TOTAL
Service(2)	\$137.14	\$254.19	\$391.33
Primary	\$118.57	\$141.11	\$259.68
Secondary	\$36.32	\$44.43	\$80.75
Transformers	\$140.14	\$12.31	\$152.45
Prim. & Sec. Trenching	-----	\$148.58	\$148.58
Service Trenching	-----	\$155.97	\$155.97
Sub-Total	\$432.17	\$756.59	\$1,188.76
Stores Handling(3)	\$30.73	-----	\$30.73
SubTotal	\$462.90	\$756.59	\$1,219.49
Engineering(5)	\$126.18	\$206.23	\$332.41
TOTAL(6)	\$589.08	\$962.82	\$1,551.90

1 - Includes Sales Tax.

2 - Includes Meters.

3 - 7.11 % of All Material.

4 - Includes Payroll, Taxes, Insurance, Pension & Welfare, & Transportation.

5 - 27.258 % of All Material and Labor.

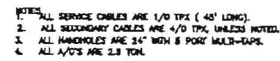
6 - Does not include storm or operational costs

**EXHIBIT VII**




- TOTAL = 1150 KVA (CONNECTED)

[illegible]



AS-BUILT COPY		AS-BUILT CREW PRINT		Government <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Survey/Station <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Mark with SMOI <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
DATE	COPY NO.	PROPERTY ADDRESS		True North <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Designer/Station <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CD/Approved by <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			
JOB CONTINUED COMPLETED is shown on this AS-BUILT print. Marked changes shown as RCL.				Map Position <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Break Face <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Draft Book Face <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Interference Record All requested records have been shown as verified to be within 10' dimensions. Values are shown at all locations.				QTY <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		OR DIST. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	COUNTY AR <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	STATE ID <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	FIA <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Requester's Signature _____ Date _____				RMD <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		OR SHAD <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	COUNTY ID <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	TRASHES <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Requester's Signature _____ Date _____				Paved by <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Telephone Request <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		GATY Request <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	

	DESIGNED BY <b>E. S. DELLINGER/OF</b> DRAWN BY <b>A. LORCE</b> DATE <b>01/30/08</b> MAP NO.	1/4" SP <b>U.G. LANTH</b> <b>HIGH DENSITY</b> 2010 USD TARIFF HARDENING REVISION 176 LOT SUBVISION
	0 30 100 300 FEET	URDE94 1328283 12428 - 44 - 883

2010 OH HIGH DENSITY LAYOUT

WR Number:  
2982370

		NUMBER OF LOTS =		2008 176	2010 176						
		MECA STORES LDG % =		6.24%	6.24%						
		ACTUAL STORES LDG % =		5.76%	7.11%						
		ACTUAL EO =		19.082%	27.258%						
		ADJUSTED CO =		6.868%	9.180%						
CLASSIFICATION	ACCOUNT	MATERIAL W/O CO 2008	MATERIAL W/O CO 2010	MATERIAL COST/LOT WITH CO 2008	MATERIAL COST/LOT WITH CO 2010	LABOR W/O CO 2008	LABOR W/O CO 2010	LABOR COST/LOT WITH CO 2008	LABOR COST/LOT WITH CO 2010	TOTAL LABOR & MATERIAL 2008	TOTAL LABOR & MATERIAL 2010
SERVICE	369.101	\$0.00	\$0.00			\$0.00	\$0.00				
SERVICE	369.100	\$10,024.00	\$8,359.98			\$15,554.94	\$17,071.92				
MTR.INST.(LAB)	586.380					\$3,843.30	\$4,184.22				
MTR.COST(MAT)		\$4,234.56	\$4,993.12	\$24.06	\$28.37						
SERVICE SUBT	W/O STORES LDG	\$13,669.80	\$12,862.08	\$83.00	\$79.79	\$19,398.24	\$21,256.14	\$117.79	\$131.86	\$200.79	\$211.65
PRIMARY	365.002	\$1,977.04	\$2,268.56			\$8,372.24	\$8,990.51				
PRIMARY	365.999	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	593.180	\$0.00	\$0.00			\$60.66	\$110.08				
PRIMARY SUBT	W/O STORES LDG	\$1,860.92	\$2,135.31	\$11.30	\$13.25	\$8,432.90	\$9,100.59	\$51.20	\$56.45	\$62.50	\$69.70
SECONDARY	365.040	\$1,687.45	\$1,936.22			\$7,145.83	\$7,673.53				
SECONDARY	365.091	\$15,121.78	\$13,937.77			\$13,166.75	\$14,602.48				
SECONDARY	365.095	\$0.00	\$0.00			\$0.00	\$0.00				
SECONDARY	365.096	\$0.00	\$0.00			\$0.00	\$0.00				
SECONDARY	365.999	\$0.00	\$0.00			\$0.00	\$0.00				
SECONDARY SUBT	W/O STORES LDG	\$15,821.94	\$14,941.64	\$96.07	\$92.69	\$20,312.57	\$22,276.01	\$123.34	\$138.19	\$219.41	\$230.88
TREE TRIM(L)											
POLES	364.130	\$0.00	\$0.00			\$0.00	\$0.00				
POLES	364.135	\$22,678.29	\$29,093.18			\$35,526.81	\$35,716.04				
POLES	364.140	\$0.00	\$0.00			\$0.00	\$0.00				
POLES	364.999	\$0.00	\$0.00			\$0.00	\$0.00				
POLE SUBT W/O	STORES LDG	\$21,346.28	\$27,384.39	\$129.62	\$169.88	\$35,526.81	\$35,716.04	\$215.72	\$221.56	\$345.34	\$391.44
TRANSFORMER	583.280	\$0.00	\$0.00			\$4,033.68	\$4,539.63				
TRANSFORMER	583.180	\$0.00	\$0.00			\$0.00	\$0.00				
TRANSFORMER	PLANT (MAT) 368	\$19,950.60	\$29,716.47								
TRANSFORMER	SUBTOTAL	\$19,950.60	\$29,716.47	\$121.14	\$184.34	\$4,033.68	\$4,539.63	\$24.49	\$28.16	\$145.63	\$212.50
SUB-TOTAL		\$72,649.54	\$87,039.89	\$441.13	\$539.95	\$87,704.20	\$92,888.41	\$532.54	\$576.22	\$973.67	\$1,116.17
MATSUB-MTR.(M)				\$417.07	\$511.58						
STORES LDG. %				5.76%	7.11%						
METER STORES LDG %				5.76%	7.11%						
TOTAL STORES LDG				\$25.41	\$38.39					\$25.41	\$38.39
SUBTOTAL				\$466.54	\$578.34			\$532.54	\$576.22	\$999.08	\$1,154.56
EO				\$89.03	\$157.64			\$101.62	\$157.07	\$190.65	\$314.71
TOTAL				\$555.57	\$735.98			\$634.16	\$733.29	\$1,189.73	\$1,469.27

## 2010 UG HIGH DENSITY LAYOUT

WR Number  
1328347

NUMBER OF LOTS =	2008 176	2010 176
MECA STORES LDG % =	6.24%	6.24%
ACTUAL STORES LDG % =	5.76%	7.11%
ACTUAL EO =	19.082%	27.258%
ADJUSTED CO =	6.868%	9.180%

CLASSIFICATION	ACCOUNT	MATERIAL W/O CO 2008	MATERIAL W/O CO 2010	MATERIAL COST/LOT WITH CO 2008	MATERIAL COST/LOT WITH CO 2010	LABOR W/O CO 2008	LABOR W/O CO 2010	LABOR COST/LOT WITH CO 2008	LABOR COST/LOT WITH CO 2010	TOTAL LABOR & MATERIAL 2008	TOTAL LABOR & MATERIAL 2010
SERVICE	369.699	\$22,588.83	\$18,182.74			\$47,707.27	\$61,934.12				
SERVICE	594.780	\$152.82	\$0.00			\$3.51	\$0.00				
SERVICE	369.600	\$0.00	\$0.00			\$0.00	\$0.00				
MTR.INST.(L)	586.380					\$3,843.30	\$4,184.22				
MTR.COST(M)		\$4,234.56	\$4,993.12	\$24.06	\$28.37						
SERVICE TRENCH						(\$17,413.83)	(\$25,143.07)				
SERVICE SUBT	W/O STORES LDG	\$25,640.48	\$22,107.90	\$155.69	\$137.14	\$34,140.25	\$40,975.27	\$207.30	\$254.19	\$362.99	\$391.33
PRIMARY	366.201	\$11,796.12	\$9,837.26			\$33,501.83	\$37,161.79				
PRIMARY	366.202	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	366.203	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	593.180	\$53.08	\$68.04			\$0.04	\$8.08				
PRIMARY	365.999	\$408.40	\$687.24			\$615.48	\$1,183.92				
PRIMARY	367.201	\$9,574.55	\$9,714.20			\$9,478.31	\$8,344.49				
PRIMARY	364.999	\$0.00	\$0.00			\$0.00	\$0.00				
PRI/SEC TRENCH						(\$21,327.65)	(\$23,950.94)				
PRIMARY SUBT	W/O STORES LDG	\$20,549.84	\$19,114.03	\$124.78	\$118.57	\$22,268.01	\$22,747.34	\$135.21	\$141.11	\$259.99	\$259.68
SECONDARY	367.122	\$8,131.97	\$6,220.31			\$8,136.42	\$7,162.89				
SECONDARY SUBT	W/O STORES LDG	\$7,654.34	\$5,854.96	\$46.48	\$36.32	\$8,136.42	\$7,162.89	\$49.40	\$44.43	\$95.88	\$80.75
TRANSFORMER	583.280	\$0.00	\$67.92			\$737.04	\$1,050.96				
TRANSFORMER	366.801	\$1,288.08	\$1,168.68			\$596.76	\$932.76				
TRANSFORMER	PLANT (MAT) 368	\$19,930.77	\$21,426.44								
TRANSFORMER	SUBTOTAL	\$21,143.19	\$22,590.41	\$128.38	\$140.14	\$1,333.80	\$1,983.72	\$8.10	\$12.31	\$136.48	\$152.45
PRI/SEC TRENCH						\$21,327.65	\$23,950.94	\$129.50	\$148.58	\$129.50	\$148.58
SVC TRENCH						\$17,413.83	\$25,143.07	\$105.74	\$155.97	\$105.74	\$155.97
SUB-TOTAL		\$74,987.85	\$69,667.30	\$455.33	\$432.17	\$104,619.96	\$121,963.23	\$635.25	\$756.59	\$1,090.58	\$1,188.76
MATSUB-MTR.(M)				\$431.27	\$403.80						
STORES LDG. %				5.76%	7.11%						
METER STORES LDG %				5.76%	7.11%						
TOTAL STORES LDG				\$26.23	\$30.73					\$26.23	\$30.73
SUBTOTAL				\$481.56	\$462.90			\$635.25	\$756.59	\$1,116.81	\$1,219.49
EO				\$91.89	\$126.18			\$121.22	\$206.23	\$213.11	\$332.41
TOTAL				\$573.45	\$589.08			\$756.47	\$962.82	\$1,329.92	\$1,551.90



## OPERATIONAL COSTS DIFFERENTIAL - HIGH DENSITY

<u>High Density</u>	<u>30-Year NPV (\$ per pole-line mile)</u>			<u>Cost per Lot</u>
	<u>O&amp;M</u>	<u>Capital</u>	<u>Total</u>	
Differential (Non-Storm) Note 1	-	-	-	\$0
<u>Avoided Storm Restoration</u>				
Tier 1 (Full GAF) - 300 or more lots	(\$38,453)		(\$38,453)	(\$384)
Tier 2 (40% GAF) - 100 to 299 lots	(\$15,381)		(\$15,381)	(\$154)
Tier 3 (20% GAF) - less than 100 lots	(\$7,691)		(\$7,691)	(\$77)
<u>High Density</u>				<u>Cost Differential</u>
Pre-Operational Cost				\$82.63
Post-Operational Cost				
Tier 1 (Full GAF) - 300 or more lots	-----			\$0.00
Tier 2 (40% GAF) - 100 to 299 lots	-----			\$0.00
Tier 3 (20% GAF) - less than 100 lots	-----			\$5.63

Note 1: The 30-year net present value of the estimated non-storm underground v. overhead operational costs differential - set at \$0 (zero) per pole-line mile of the existing overhead facilities as reflected in the terms of the "Stipulation and Settlement Agreement" in Docket Nos. 080244-EI, 070231-EI and 080522-EI.

**METER PEDESTAL**

COMPANY: FPL

DATE: 03/15/10

OVERHEAD VS. UNDERGROUND SUMMARY SHEET

High Density 176 Lot Subdivision  
Customer Owned Service Laterals from Meter Centers  
Cost per Dwelling Unit

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$555.94	\$508.83	(\$47.11)
MATERIAL	\$613.26	\$470.51	(\$142.75)
<b>TOTAL *</b>	<b>\$1,169.20</b>	<b>\$979.34</b>	<b>(\$189.86)</b>

\* The differential has been reduced to \$0 in the URD filing since the differential is a negative amount.

COST PER DWELLING UNIT OVERHEAD MATERIAL AND LABOR

High Density 176 Lot Subdivision  
FPL Service Drop and Customer Owned Service Laterals from Meter Centers

ITEM	MATERIAL(1)	LABOR(4)	TOTAL
Service(2)	\$53.51	\$77.81	\$131.32
Primary	\$13.92	\$59.83	\$73.75
Secondary	\$73.09	\$119.73	\$192.82
Initial Tree Trim	-----	-----	-----
Poles	\$125.05	\$151.33	\$276.38
Transformers	\$184.34	\$28.16	\$212.50
Sub-Total	\$449.91	\$436.86	\$886.77
Stores Handling(3)	\$31.99	-----	\$31.99
SubTotal	\$481.90	\$436.86	\$918.76
Engineering(5)	\$131.36	\$119.08	\$250.44
TOTAL(6)	\$613.26	\$555.94	\$1,169.20

1 - Includes Sales Tax.

2 - Includes Meters.

3 - 7.11 % of All Material.

4 - Includes Payroll, Taxes, Insurance, Pension & Welfare, & Transportation.

5 - 27.258 % of All Material and Labor.

6 - Does not include storm or operational costs

COST PER DWELLING UNIT UNDERGROUND MATERIAL AND LABOR

High Density 176 Lot Subdivision  
Customer Owned Service Laterals from Meter Centers

ITEM	MATERIAL(1)	LABOR(4)	TOTAL
Service(2)	\$30.97	\$61.21	\$92.18
Primary	\$120.79	\$123.36	\$244.15
Secondary	\$73.57	\$82.15	\$155.72
Transformers	\$119.86	\$10.25	\$130.11
Prim. & Sec. Trenching	-----	\$122.87	\$122.87
Service Trenching	-----	-----	-----
Sub-Total	\$345.19	\$399.84	\$745.03
Stores Handling(3)	\$24.54	-----	\$24.54
SubTotal	\$369.73	\$399.84	\$769.57
Engineering(5)	\$100.78	\$108.99	\$209.77
TOTAL(6)	\$470.51	\$508.83	\$979.34

1 - Includes Sales Tax.

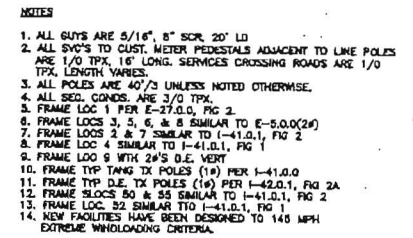
2 - Includes Meters.

3 - 7.11 % of All Material.


4 - Includes Payroll, Taxes, Insurance, Pension & Welfare, & Transportation.

5 - 27.258 % of All Material and Labor.

6 - Does not include storm or operational costs



Ad = 575 KVA  
Bd = 575 KVA  
TOTAL = 1150 KVA (CONNECTED)

PLT. NAME: JFM/2002 ASBLKT.	2863584-3	3	28/21/10	UPDATE DING	AS-BUILT COPY	AS-BUILT DREW PRINT	Easement?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Survey/Status?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Work With BACT?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		DESIGNED BY	E. DILLON-KOPPEL	R/S SP METER PEDESTALS 176 LOTS - OVERHEAD 2010 URB YARFIF HARDENING REVISION URDE93 2983584-3 28331-32-883
	2817090	4	28/30/05	UPDATE NO STORM HARDENING STANDARDS	DATE	02/25/07	Tree Market?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Designer/Status?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	City/Approved MDT?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		DRAWN BY	M. RICHARDS	
	2306342	3	31/08/07	UPDATE DING WITH METER PEDESTALS	I HAVE CERTIFIED complete as shown on this AS-BUILT print. Metered changes shown on RICE.	Trench Foot?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	City/Bois Foot?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE	01/21/10	MAP NO.				
	1324918	3	31/23/07	CLEAN BACKGROUND	SIGNATURE		CITY	DR. DIST.	COUNTY AM.	STATE NO.	FAA					
	848-64-810	2	02/25/07	ORIGINAL DING	ALL project ground reads have been drawn & verified to be within 1% tolerance. Values are shown at all locations.	CITY	DR. DIST.	COUNTY AM.	STATE NO.	FAA						
				REVISION			Posted by	Telephone Request?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	CITY Request?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>					

[illegible]

## 2010 OH METER PEDESTAL LAYOUT

WR Number  
2983564

NUMBER OF LOTS =	2008 176	2010 176
MECA STORES LDG % =	6.24%	6.24%
ACTUAL STORES LDG % =	5.76%	7.11%
ACTUAL EO =	19.082%	27.258%
ADJUSTED CO =	6.868%	9.180%

CLASSIFICATION	ACCOUNT	MATERIAL W/O CO 2008	MATERIAL W/O CO 2010	MATERIAL COST/LOT WITH CO 2008	MATERIAL COST/LOT WITH CO 2010	LABOR W/O CO 2008	LABOR W/O CO 2010	LABOR COST/LOT WITH CO 2008	LABOR COST/LOT WITH CO 2010	TOTAL LABOR & MATERIAL 2008	TOTAL LABOR & MATERIAL 2010
SERVICE	369.101	\$0.00	\$0.00			\$0.00	\$0.00				
SERVICE	369.100	\$4,597.45	\$3,859.14			\$7,630.08	\$8,359.62				
MTR.INST.(LAB)	586.380					\$3,843.30	\$4,184.22				
MTR.COST(MAT)		\$4,234.56	\$4,993.12	\$24.06	\$28.37						
SERVICE SUBT	W/O STORES LDG	\$8,561.98	\$8,625.59	\$51.99	\$53.51	\$11,473.38	\$12,543.84	\$69.67	\$77.81	\$121.66	\$131.32
PRIMARY	365.002	\$1,921.77	\$2,383.89			\$7,857.68	\$9,573.76				
PRIMARY	365.999	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	593.180	\$0.00	\$0.00			\$69.40	\$70.85				
PRIMARY SUBT	W/O STORES LDG	\$1,808.89	\$2,243.87	\$10.98	\$13.92	\$7,927.08	\$9,644.61	\$48.13	\$59.83	\$59.11	\$73.75
SECONDARY	365.040	\$1,637.49	\$2,034.66			\$6,695.30	\$8,171.33				
SECONDARY	365.091	\$10,817.63	\$10,483.08			\$9,094.46	\$11,129.46				
SECONDARY	365.095	\$0.00	\$0.00			\$0.00	\$0.00				
SECONDARY	365.999	\$0.00	\$0.00			\$0.00	\$0.00				
SECONDARY SUBT	W/O STORES LDG	\$11,723.57	\$11,782.52	\$71.19	\$73.09	\$15,789.76	\$19,300.79	\$95.88	\$119.73	\$167.07	\$192.82
TREE TRIM(L)											
POLES	364.130	\$0.00	\$0.00			\$0.00	\$0.00				
	364.135	\$15,969.45	\$21,416.59			\$23,468.75	\$24,395.06				
	364.140	\$0.00	\$0.00			\$0.00	\$0.00				
	364.999	\$0.00	\$0.00			\$0.00	\$0.00				
POLE SUBT W/O	STORES LDG	\$15,031.49	\$20,158.69	\$91.27	\$125.05	\$23,468.75	\$24,395.06	\$142.50	\$151.33	\$233.77	\$276.38
TRANSFORMER	583.280	\$0.00	\$0.00			\$4,033.68	\$4,539.63				
TRANSFORMER	583.180	\$0.00	\$0.00			\$0.00	\$0.00				
TRANSFORMER	PLANT (MAT) 368	\$19,950.60	\$29,716.47			\$4,033.68	\$4,539.63	\$24.49	\$28.16	\$145.63	\$212.50
TRANSFORMER	SUBTOTAL	\$19,950.60	\$29,716.47	\$121.14	\$184.34	\$4,033.68	\$4,539.63	\$24.49	\$28.16	\$145.63	\$212.50
SUB-TOTAL		\$57,076.53	\$72,527.14	\$346.57	\$449.91	\$62,692.65	\$70,423.93	\$380.67	\$436.86	\$727.24	\$886.77
MATSUB-MTR.(M)				\$322.51	\$421.54						
STORES LDG. %				5.76%	7.11%						
METER STORES LDG %				5.76%	7.11%						
TOTAL STORES LDG				\$19.96	\$31.99					\$19.96	\$31.99
SUBTOTAL				\$366.53	\$481.90			\$380.67	\$436.86	\$747.20	\$918.76
EO				\$69.94	\$131.36			\$72.64	\$119.08	\$142.58	\$250.44
TOTAL				\$436.47	\$613.26			\$453.31	\$555.94	\$889.78	\$1,169.20



2010 UG METER PEDESTAL LAYOUT

WR Number  
1368886

		NUMBER OF LOTS =		2008 176	2010 176						
		MECA STORES LDG % =		6.24%	6.24%						
		ACTUAL STORES LDG% =		5.76%	7.11%						
		ACTUAL EO =		19.082%	27.258%						
		ADJUSTED CO =		6.868%	9.180%						
CLASSIFICATION	ACCOUNT	MATERIAL W/O CO 2008	MATERIAL W/O CO 2010	MATERIAL COST/LOT WITH CO 2008	MATERIAL COST/LOT WITH CO 2010	LABOR W/O CO 2008	LABOR W/O CO 2010	LABOR COST/LOT WITH CO 2008	LABOR COST/LOT WITH CO 2010	TOTAL LABOR & MATERIAL 2008	TOTAL LABOR & MATERIAL 2010
SERVICE	369.603	\$0.00	\$0.00			\$0.00	\$0.00				
SERVICE	369.600	\$0.00	\$0.00			\$0.00	\$5,683.17				
MTR.INST.(LAB)	586.380					\$3,843.30	\$4,184.22				
MTR.COST(MAT)		\$4,234.56	\$4,993.12	\$24.06	\$28.37						
SERVICE TRENCH						\$0.00	\$0.00				
SERVICE SUBT	W/O STORES LDG	\$4,234.56	\$4,993.12	\$25.71	\$30.97	\$3,843.30	\$9,867.39	\$23.34	\$61.21	\$49.05	\$92.18
PRIMARY	366.201	\$11,905.23	\$10,642.97			\$28,616.51	\$31,976.92				
PRIMARY	366.202	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	366.203	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	366.204	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	366.205	\$0.00	\$0.00			\$0.00	\$0.00				
PRIMARY	365.999	\$408.40	\$599.24			\$615.48	\$936.70				
PRIMARY	367.201	\$8,752.30	\$9,273.46			\$7,544.43	\$6,686.84				
PRIMARY	594.680	\$0.00	\$0.00			\$0.75	\$0.00				
PRIMARY	593.180	\$128.42	\$171.00			\$80.76	\$92.00				
PRI/SEC TRENCH						(\$17,637.06)	(\$19,806.41)				
PRIMARY SUBT	W/O STORES LDG	\$19,949.50	\$19,471.64	\$121.13	\$120.79	\$19,220.88	\$19,886.05	\$116.71	\$123.36	\$237.84	\$244.15
SECONDARY	367.122	\$15,648.42	\$12,598.87			\$14,942.66	\$13,243.48				
SECONDARY SUBT	W/O STORES LDG	\$14,729.31	\$11,858.87	\$89.44	\$73.57	\$14,942.66	\$13,243.48	\$90.73	\$82.15	\$180.17	\$155.72
TRANSFORMER	583.280	\$0.00	\$56.60			\$614.20	\$875.80				
TRANSFORMER	366.801	\$1,073.40	\$973.90			\$497.30	\$777.30				
TRANSFORMER	PLANT (MAT) 368	\$17,033.62	\$18,351.40								
TRANSFORMER	SUBTOTAL	\$18,043.97	\$19,321.37	\$109.56	\$119.86	\$1,111.50	\$1,653.10	\$6.75	\$10.25	\$116.31	\$130.11
PRI/SEC TRENCH						\$17,637.06	\$19,806.41	\$107.09	\$122.87	\$107.09	\$122.87
SVC TRENCH						\$0.00	\$0.00	\$0.00	\$0.00		
SUB-TOTAL		\$56,957.34	\$55,645.00	\$345.84	\$345.19	\$56,755.40	\$64,456.43	\$344.62	\$399.84	\$690.46	\$745.03
MATSUB-MTR.(M)				\$321.78	\$316.82						
STORES LDG. %				5.76%	7.11%						
METER STORES LDG %				5.76%	7.11%						
TOTAL STORES LDG				\$19.92	\$24.54					\$19.92	\$24.54
SUBTOTAL				\$365.76	\$369.73			\$344.62	\$399.84	\$710.38	\$769.57
E0				\$69.79	\$100.78			\$65.76	\$108.99	\$135.55	\$209.77
TOTAL				\$435.55	\$470.51			\$410.38	\$508.83	\$845.93	\$979.34

## OPERATIONAL COSTS DIFFERENTIAL - METER PEDESTAL

<u>Meter Pedestal</u>	<u>30-Year NPV (\$ per pole-line mile)</u>			<u>Cost per Lot</u>
	<u>O&amp;M</u>	<u>Capital</u>	<u>Total</u>	
Differential (Non-Storm) Note 1	-	-	-	\$0

### Avoided Storm Restoration

Tier 1 (Full GAF) - 300 or more lots	(\$38,453)	(\$38,453)	(\$384)
Tier 2 (40% GAF) - 100 to 299 lots	(\$15,381)	(\$15,381)	(\$154)
Tier 3 (20% GAF) - less than 100 lots	(\$7,691)	(\$7,691)	(\$77)

<u>Meter Pedestal</u>		<u>Cost Differential</u>
Pre-Operational Cost	Note 2	\$0.00
Post-Operational Cost		
Tier 1 (Full GAF) - 300 or more lots	-----	\$0.00
Tier 2 (40% GAF) - 100 to 299 lots	-----	\$0.00
Tier 3 (20% GAF) - less than 100 lots	-----	\$0.00

Note 1: The 30-year net present value of the estimated non-storm underground v. overhead operational costs differential - set at \$0 (zero) per pole-line mile of the existing overhead facilities as reflected in the terms of the "Stipulation and Settlement Agreement" in Docket Nos. 080244-EI, 070231-EI and 080522-EI.

Note 2: The "Pre-Operational Cost" differential has been reduced to \$0 since it is a negative amount (-189.86). However, the negative amount has been applied to determine the "Post-Operational Cost" differentials.

,

**FEEDER COST**

AVERAGE UNDERGROUND FEEDER COST

<u>Underground</u>	<u>Overhead</u>	<u>Difference</u>
\$/Ft.....\$33.37	\$/Ft.....\$21.19	\$/Ft.....\$12.19

AVERAGE UNDERGROUND LATERAL COST

<u>1 Phase Underground</u>	<u>1 Phase Overhead</u>	<u>Difference</u>
\$/Ft.....\$8.30	\$/Ft.....\$7.48	\$/Ft.....\$0.82

<u>2 Phase Underground</u>	<u>2 Phase Overhead</u>	<u>Difference</u>
\$/Ft.....\$12.21	\$/Ft.....\$9.32	\$/Ft.....\$2.89

<u>3 Phase Underground</u>	<u>3 Phase Overhead</u>	<u>Difference</u>
\$/Ft.....\$15.88	\$/Ft.....\$11.38	\$/Ft.....\$4.50

**NOTE:** Feeder estimates based on three phase requirements.  
See Exhibit XIIA for details.

**2010 URD TARIFF****FEEDER/LATERAL COST<sup>1</sup>**

Feeder Length (Ft) = .....	25,428
UG Feeder Cost = .....	\$920,576.98
26 UG Lateral Risers not required if UG Feeder is used	
Cost of each Lateral Riser = .....	\$2,769.53
26 Lateral Risers X \$2,769.53 = .....	<u>(\$72,007.78)</u>
Net UG Feeder Cost = .....	\$848,569.20
UG Feeder per foot cost = .....	\$33.37
OH Feeder Cost = .....	\$538,692.99
OH Feeder per foot cost = .....	\$21.19
Feeder Differential Cost = .....	\$12.19
Padmounted Switch cabinet weighted cost (Each) <sup>2</sup> = .....	\$25,697.99

**NOTES:** (1) These per foot costs include cable-in-conduit and cable pull boxes.  
(2) Differential cost based on padmounted switch vs. overhead switch average installed cost weighted by quantity of each switch installed. This cost is identical to the padmounted switch cost in the UCD Tariff.

**2010 URD TARIFF****LATERAL COST<sup>3</sup>**

Lateral Length = 1000 Feet

1 Phase UG Lateral Cost = .....	\$8,304.31
1 Phase UG Lateral Cost Per Foot =.....	\$8.30
1 Phase Overhead Lateral Cost =.....	\$7,475.40
1 Phase Overhead Lateral Cost Per Foot =.....	\$7.48
1 Phase Lateral Differential Cost =.....	\$0.82
2 Phase UG Lateral Cost = .....	\$12,206.27
2 Phase UG Lateral Cost Per foot = .....	\$12.21
2 Phase OH Lateral Cost = .....	\$9,323.58
2 Phase OH Lateral Cost Per foot = .....	\$9.32
2 Phase Lateral Differential Cost =.....	\$2.89
3 Phase UG Lateral Cost = .....	\$15,877.77
3 Phase UG Lateral Cost Per foot = .....	\$15.88
3 Phase OH Lateral Cost = .....	\$11,382.06
3 Phase OH Lateral Cost Per foot = .....	\$11.38
3 Phase Lateral Differential Cost =.....	\$4.50

**NOTE:** (3) These costs include cable-in-conduit only (no pull boxes).

## CONDUIT CREDITS

## 2010 URD TARIFF

## URD BASIS ADDENDUM TO APPENDIX NO. 3

### 10.3.3

## Conduit Installation Credits

## 1. Low Density

[illegible][illegible]

## 2. High Density

Pri/Sec = ..... 91.04 MH X \$109.47 /MH =..... \$9,966.15

176 Lots

\$ 56.63 /Lot

[illegible]

### 3. Meter Pedestals

Pri/Sec = ..... 73.54 MH X \$109.47 /MH =..... \$8,050.42  
 ..... 176 Lots  
 ..... \$ 45.74 /Lot



**BACK-UP CALCULATIONS FOR CHANGES TO COSTS IN SEC. 10.2.11 OF  
TWENTY-FIRST REVISED SHEET NO. 6.095**

**10.5.4 Replace Existing Service**

2" PVC                      0.005 MH X \$109.47 /MH X.      63 Ft.=..... \$34.48 /Lot

**10.4.3 UG Service from OH Lines**

2" PVC                      0.005 MH X \$109.47 /MH =..... \$0.55 /Ft.

LARGER THAN 2" PVC      0.007 MH X \$109.47 /MH =..... \$0.77 /Ft.

**10.3.3.d. Credit for Installation of Conduit**

2" PVC                      0.005 MH X \$109.47 /MH =..... \$0.55 /Ft.

LARGER THAN 2" PVC      0.007 MH X \$109.47 /MH =..... \$0.77 /Ft.

**10.2.11 Extensions of Service Beyond Point of Delivery**

CABLE MATERIAL              \$0.73 /Ft. X      1.0711 Stores Loading = ..... \$0.78 /Ft.

\$0.78 /Ft. X      1.27258 EO = ..... \$0.99 /Ft.

CABLE PULL                      \$109.47 /MH X      0.003 MH =..... \$ 0.33 /Ft.

\$ 0.33 /Ft. X      1.27258 EO = ..... \$0.42 /Ft.

CONDUIT MATERIAL              \$0.29 /Ft. X      1.0711 Stores Loading = ..... \$0.31 /Ft.

\$0.31 /Ft. X      1.27258 EO = ..... \$0.39 /Ft.

CONDUIT LABOR                      \$109.47 /MH X      0.005 MH =..... \$0.55 /Ft.

\$0.55 /Ft. X      1.27258 EO = ..... \$0.70 /Ft.

TRENCH                      \$109.47 /MH X      0.029 MH =..... \$3.17 /Ft.

\$3.17 /Ft. X      1.27258 EO = ..... \$4.03 /Ft.

TOTAL..... \$6.53 /Ft.

**When Customer Provides Trench and Conduit Installation**

\$0.99 +              \$0.42 +              \$0.39 =..... \$1.80 /Ft.  
Cable Material +      Pull Labor +              Conduit Material

## **TRENCH CREDITS**

## 2010 URD TARIFF

## TRENCH CREDITS

### 10.3.3

### 1. Low Density

Pri/Sec = ..... 432.39 MH X \$109.47 /MH =..... \$47,333.73  
210 Lots  
 \$225.40 /Lot

Svc =..... 0.029 MH X \$109.47 /MH X 63 Ft. =..... \$200.00 /Lot

## 2. High Density

Pri/Sec = ..... 218.79 MH X \$109.47 /MH = ..... \$23,950.94  
176 Lots  
 \$136.08 /Lot

Svc =..... 0.029 MH X \$109.47 /MH X 45 Ft. =..... \$142.86 /Lot

### 3. Meter Pedestals

Pri/Sec = ..... 180.93 MH X \$109.47 /MH = ..... \$19,806.41  
176 Lots  
 \$112.54 /Lot

DATE: 03/15/10

Feeder/Lateral Trench Credit =.....	\$109.47	/MH X	0.029	MH =	\$3.17	/Ft.
Feeder Splice Box Installation Credit =.....	\$109.47	/MH X	5.54	MH =	\$606.46	/Box
Primary Splice Box Installation Credit =.....	\$109.47	/MH X	1.94	MH =	\$212.37	/Box
Secondary Handhole Installation Credit						
For 17" Handhole = .....	\$109.47	/MH X	0.18	MH =	\$19.70	/HH
For 24" or 30" Handhole = .....	\$109.47	/MH X	0.51	MH =	\$55.83	/HH
Concrete Pad for Pad Mounted Transformer or Capacitor Bank Credit =.....						
	\$109.47	/MH X	0.5	MH =	\$54.74	/Pad
Flexible HDPE Conduit Installation Credit = .....	\$109.47	/MH X	0.001	MH =	\$0.11	/Ft.
Concrete Pad and Cable Chamber for Feeder Switch Pad =.....						
	\$109.47	/MH X	4.71	MH =	\$515.60	/Pad

## Trench Credit for New UG Service Laterals

**10.4.3**  $\$109.47 \text{ /MH} \times 0.029 \text{ MH} = \$3.17 \text{ /Ft.}$

### Trench Credit for Replacement of OH Service with UG Service

10.5.4. 0.029 MH X \$109.47 /MH X 63 Ft. = \$200.00 /Svc

Shown on Page 3 of Basis

**RISER TO HANDHOLE COST  
AND SERVICE LATERAL DIFFERENTIAL**

**2010 URD TARIFF**  
**RISER TO HANDHOLE COST**

## Overhead

<u>Material</u>	<u>Labor</u>	<u>Total</u>
\$85.45	\$154.22	\$239.67

## Underground

<u>Material</u>	<u>Labor</u>	
\$382.41	\$568.26	<u>\$950.67</u>

**DIFFERENTIAL =** ..... \$711.00

**SERVICE LATERAL DIFFERENTIAL - LOW DENSITY**

	<u>Underground</u>	<u>Overhead</u>
Material	\$120.24	\$83.24
Labor	\$403.97	\$146.30
Stores loading	\$8.55	\$5.92
EO	<u>\$145.22</u>	<u>\$64.18</u>
Total	\$677.98	\$299.64

UNDERGROUND	\$677.98
OVERHEAD	<u>(\$299.64)</u>
DIFFERENTIAL =	\$378.34

**2010 URD TARIFF****SERVICE LATERAL DIFFERENTIAL - HIGH DENSITY**

	<u>Underground</u>	<u>Overhead</u>
Material	\$98.66	\$70.91
Labor	\$325.36	\$132.11
Stores loading	\$7.01	\$5.04
EO	<u>\$117.49</u>	<u>\$56.71</u>
Total	\$548.52	\$264.77

UNDERGROUND	\$548.52
OVERHEAD	<u>(\$264.77)</u>
DIFFERENTIAL =	\$283.75



## **COST CHANGES**

## Low Density Major Changes

Item	Approved	Current	Difference	Total \$	Change per Lot (differential)	% of total change
<b>CIAC/Lot</b>	<b>\$563.23</b>	<b>\$396.39</b>	<b>\$ (166.84)</b>		<b>\$ (166.84)</b>	<b>100.00%</b>
OH Labor Rate	\$ 109.13	\$ 118.87	\$ 9.74	\$ 12,234.41	\$ (58.26)	
UG Labor Rate	\$ 97.48	\$ 109.47	\$ 11.99	\$ 22,145.45	\$ 105.45	
<b>Labor Impact</b>					<b>\$ 47.20</b>	<b>-28.29%</b>
Stores Loading cost/Lot - OH	\$31.14	\$48.85	\$ 17.71	\$ 3,719.10	\$ (17.71)	
Stores Loading cost/Lot - UG	\$40.67	\$46.53	\$ 5.86	\$ 1,230.60	\$ 5.86	
<b>Store Loading Impact</b>					<b>\$ (11.85)</b>	<b>7.10%</b>
EO/Lot - OH	\$109.09	\$200.59	\$ 91.50		\$ (91.50)	
EO/Lot - UG	\$147.09	\$198.80	\$ 51.71		\$ 51.71	
<b>EO Impact</b>					<b>\$ (39.79)</b>	<b>23.85%</b>
<b>Major material</b>						
Transformer cost - OH	\$30,373.37	\$38,906.61	\$ 8,533.24		\$ (40.63)	
Primary Cable cost	\$47,668.33	\$43,237.59	\$ (4,430.74)		\$ (21.10)	
Poles cost	\$34,797.21	\$44,428.52	\$ 9,631.31		\$ (45.86)	
Conduit cost	\$19,526.78	\$13,285.18	\$ (6,241.60)		\$ (29.72)	
Service Cable cost	\$28,957.22	\$24,383.68	\$ (4,573.54)		\$ (21.78)	
Primary Conductor cost	\$7,109.65	\$5,583.12	\$ (1,526.53)		\$ 7.27	
Transformer cost - UG	\$41,330.79	\$43,936.89	\$ 2,606.10		\$ 12.41	
Ground rod correction	\$ 2,135.99	\$ 1,377.97	\$ (758.02)		\$ (3.61)	
Secondary Cable cost	\$25,520.66	\$19,771.89	\$ (5,748.77)		\$ (27.38)	
Secondary Conductor cost	\$13,897.14	\$24,961.76	\$ 11,064.62		\$ (52.69)	
Service Conductor cost	\$20,043.56	\$18,262.51	\$ (1,781.05)		\$ 8.48	
Other Material					\$ 52.21	52.21
<b>Material Impact</b>					<b>\$ (162.40)</b>	<b>97.34%</b>
<b>Overhead Transformers</b>						
	<b>Size</b>	<b>2008 Cost per</b>	<b>2010 Cost per</b>	<b>\$ Change per</b>	<b>% Change per</b>	
441-12500-5	25	\$480.45	\$768.77	\$288.32	60%	
441-15000-0	50	\$693.59	\$1,118.62	\$425.04	61%	
441-17500-2	75	\$1,177.88	\$1,695.71	\$517.83	44%	
<b>Underground Transformers</b>						
	<b>Size</b>	<b>2008 Cost per</b>	<b>2010 Cost per</b>	<b>\$ Change per</b>	<b>% Change per</b>	
459-48100-8	50	\$1,607.82	\$1,724.50	\$116.68	7%	
459-48200-4	75	\$1,767.06	\$1,909.55	\$142.49	8%	
<b>Poles</b>						
	<b>Size</b>	<b>2008 Cost per</b>	<b>2010 Cost per</b>	<b>\$ Change per</b>	<b>% Change per</b>	
151-18000-0	35/4	\$169.07	\$199.27	\$30.19	18%	
151-18900-1	40/3	\$207.70	\$290.61	\$82.90	40%	
151-19400-5	45/2	\$279.42	\$396.91	\$117.49	42%	
<b>Conduit and Cable</b>						
	<b>Size</b>	<b>2008 Cost/Ft</b>	<b>2010 Cost/Ft</b>	<b>\$ Change per</b>	<b>% Change per</b>	
164-33100-6	2"	\$0.43	\$0.29	-\$0.12	-27%	
100-25000-5	1/0 TPX (UG)	\$0.95	\$0.73	-\$0.27	-29%	
100-25300-4	4/0 TPX (UG)	\$1.40	\$1.03	-\$0.49	-35%	

### Summary of Changes:

The 2010 URD pre-operational low density cost differential is \$166.84 lower than the 2008 differential (a decrease of 29.62%). Several major factors have contributed to this decrease in the differential cost. Overhead transformer unit prices and pole costs have significantly increased. To partially mitigate these increasing costs, FPL has revised the equivalent overhead design, reducing the number of transformers, which required a corresponding increase in secondary conductor footage. Additionally, decreases in metals and plastics market prices have reduced underground cable and conduit unit costs. The effect of the increasing overhead costs and decreasing underground costs was a decrease in the URD differential cost. While underground labor rates increased more than overhead labor rates, the effect was to only partially offset the impacts that the above mentioned material cost changes have on the differential.

## 2010 URD TARIFF LABOR CHANGES

### LOW DENSITY

\$396.39                      -                      \$563.23                      =                      (\$166.84)                      =                      -29.62%

<u>LABOR</u>		<u>2008</u>	<u>2010</u>	<u>%INC</u>	<u>\$ Diff.</u> <u>Impact</u>	<u>% Diff.</u> <u>Impact</u>
1. Labor Rate	OH	\$109.13	\$118.87	8.93%	(\$59.56)	35.70%
(Per MH)	UG	\$97.48	\$109.47	12.30%	\$108.62	-65.10%
2. Manhours	OH	1284.08	1256.10	-2.18%	\$14.54	-8.72%
	UG	1953.36	1898.10	-2.83%	(\$25.60)	15.35%
3. EO/CO Rate		27.26%	38.94%	42.85%	\$29.93	-17.94%
Base		\$256.25	\$291.32	13.68%	\$9.56	-5.73%
Labor Impact on Differential.....					<b>\$77.49</b>	<b>-46.44%</b>

## High Density Major Changes

Item	Approved	Current	Difference	Total \$	Change per Lot (differential)	% of total change
<b>CIAC/Lot</b>	<b>\$140.19</b>	<b>\$82.63</b>	<b>\$ (57.56)</b>		<b>\$ (57.56)</b>	<b>100.00%</b>
OH Labor Rate	\$ 109.13	\$ 118.87	\$ 9.74	\$ 7,614.05	\$ (36.26)	
UG Labor Rate	\$ 97.48	\$ 109.47	\$ 11.99	\$ 12,602.11	\$ 60.01	
<b>Labor Impact</b>					<b>\$ 23.75</b>	<b>-41.27%</b>
Stores Loading cost/Lot - OH	\$25.41	\$38.39	\$ 12.98	\$ 2,725.80	\$ (12.98)	
Stores Loading cost/Lot - UG	\$26.23	\$30.73	\$ 4.50	\$ 945.00	\$ 4.50	
<b>Store Loading Impact</b>					<b>\$ (8.48)</b>	<b>14.73%</b>
EO/Lot - OH	\$89.03	\$157.64	\$ 68.61		\$ (68.61)	
EO/Lot - UG	\$91.89	\$126.18	\$ 34.29		\$ 34.29	
<b>EO Impact</b>					<b>\$ (34.32)</b>	<b>59.62%</b>
<b>Major material</b>						
Transformer cost - OH	\$19,950.60	\$29,716.47	\$ 9,765.87		\$ (46.50)	
Primary Cable cost	\$20,549.84	\$19,114.03	\$ (1,435.81)		\$ (6.84)	
Poles cost	\$21,346.28	\$27,384.39	\$ 6,038.11		\$ (28.75)	
Conduit cost	\$ 9,514.98	\$ 6,999.11	\$ (2,515.87)		\$ (11.98)	
Service Cable cost	\$25,640.48	\$22,107.90	\$ (3,532.58)		\$ (16.82)	
Primary Conductor cost	\$1,860.92	\$2,135.31	\$ 274.39		\$ (1.31)	
Transformer cost - UG	\$21,143.19	\$22,590.41	\$ 1,447.22		\$ 6.89	
Secondary Cable cost	\$7,654.34	\$5,854.96	\$ (1,799.38)		\$ (8.57)	
Secondary Conductor cost	\$15,821.94	\$14,941.64	\$ (880.30)		\$ 4.19	
Service Conductor cost	\$13,669.80	\$12,862.08	\$ (807.72)		\$ 3.85	
Other Material					\$ 67.33	
<b>Material Impact</b>					<b>\$ (38.51)</b>	<b>66.91%</b>

		2008	2010		
<b>Overhead Transformers</b>	<b>Size</b>	<b>Cost per</b>	<b>Cost per</b>	<b>\$ Change per</b>	<b>% Change per</b>
441-12500-5	25	\$480.45	\$768.77	\$288.32	60%
441-15000-0	50	\$693.59	\$1,118.62	\$425.04	61%
441-17500-2	75	\$1,177.88	\$1,695.71	\$517.83	44%

		2008	2010		
<b>Underground Transformers</b>	<b>Size</b>	<b>Cost per</b>	<b>Cost per</b>	<b>\$ Change per</b>	<b>% Change per</b>
459-48100-8	50	\$1,607.82	\$1,724.50	\$116.68	7%
459-48200-4	75	\$1,767.06	\$1,909.55	\$142.49	8%

		2008	2010		
<b>Poles</b>	<b>Size</b>	<b>Cost per</b>	<b>Cost per</b>	<b>\$ Change per</b>	<b>% Change per</b>
151-18000-0	35/4	\$169.07	\$199.27	\$30.19	18%
151-18900-1	40/3	\$207.70	\$290.61	\$82.90	40%
151-19400-5	45/2	\$279.42	\$396.91	\$117.49	42%

		2008	2010		
<b>Conduit and Cable</b>	<b>Size</b>	<b>Cost/Ft</b>	<b>Cost/Ft</b>	<b>\$ Change per</b>	<b>% Change per</b>
164-33100-6	2"	\$0.43	\$0.29	-\$0.12	-27%
100-25000-5	1/0 TPX (UG)	\$0.95	\$0.73	-\$0.22	-23%
100-25300-4	4/0 TPX (UG)	\$1.40	\$1.03	-\$0.37	-26%

### Summary of Changes:

The 2010 URD pre-operational high density cost differential is \$57.56 lower than the 2008 differential (a decrease of 41.05%). Several major factors have contributed to this decrease in the differential cost. Overhead transformer unit prices and pole costs have significantly increased. Additionally, decreases in metals and plastics market prices have reduced underground cable and conduit unit costs. The effect of the increasing overhead costs and decreasing underground costs was a decrease in the URD differential cost. While underground labor rates increased more than overhead labor rates, this only partially offset the impacts that the above mentioned material cost changes had on the differential.

## 2010 URD TARIFF LABOR CHANGES

### HIGH DENSITY

\$82.63		-	\$140.19	=	(\$57.56)	=	-41.06%
<b><u>LABOR</u></b>			<u>2008</u>	<u>2010</u>	<u>%INC</u>	<u>\$ Diff.</u> <u>Impact</u>	<u>% Diff.</u> <u>Impact</u>
1. Labor Rate (Per MH)	OH	\$109.13	\$118.87	8.93%	(\$44.47)	-77.26%	
	UG	\$97.48	\$109.47	12.30%	\$68.33	118.72%	
2. Manhours	OH	803.56	781.73	-2.72%	\$13.54	23.52%	
	UG	1044.84	1094.1	4.71%	\$27.74	48.19%	
3. EO/CO Rate Base		27.26%	38.94%	42.85%	\$11.23	19.50%	
		\$96.11	\$165.20	71.89%	\$18.84	32.72%	
Labor Impact on Differential.....						<b>\$95.20</b>	<b>165.39%</b>

## Meter Pedestal Major Changes

Item	Approved	Current	Difference	Total \$	Change per Lot (differential)	% of total change
<b>CIAC/Lot</b>	<b>(\$43.85)</b>	<b>(\$189.86)</b>	<b>\$ (146.01)</b>		<b>\$ (146.01)</b>	<b>100.00%</b>
OH Labor Rate	\$ 109.13	\$ 118.87	\$ 9.74	\$ 5,772.31	\$ (27.49)	
UG Labor Rate	\$ 97.48	\$ 109.47	\$ 11.99	\$ 6,709.72	\$ 31.95	
<b>Labor Impact</b>					<b>\$ 4.46</b>	<b>-3.06%</b>
Stores Loading cost/Lot - OH	\$19.96	\$31.99	\$ 12.03	\$ 2,526.30	\$ (12.03)	
Stores Loading cost/Lot - UG	\$19.92	\$24.54	\$ 4.62	\$ 970.20	\$ 4.62	
<b>Store Loading Impact</b>					<b>\$ (7.41)</b>	<b>5.07%</b>
EO/Lot - OH	\$69.94	\$131.36	\$ 61.42		\$ (61.42)	
EO/Lot - UG	\$69.79	\$100.78	\$ 30.99		\$ 30.99	
<b>EO Impact</b>					<b>\$ (30.43)</b>	<b>20.84%</b>
<b>Major material</b>						
Transformer cost - OH	\$19,950.60	\$29,716.47	\$ 9,765.87		\$ (46.50)	
Primary Cable cost	\$19,949.50	\$19,471.64	\$ (477.86)		\$ (2.28)	
Poles cost	\$15,031.49	\$20,158.69	\$ 5,127.20		\$ (24.42)	
Conduit cost	\$ 5,520.66	\$ 3,877.28	\$ (1,643.38)		\$ (7.83)	
Service Cable cost	\$4,234.56	\$4,993.12	\$ 758.56		\$ 3.61	
Primary Conductor cost	\$1,808.89	\$2,243.87	\$ 434.98		\$ (2.07)	
Transformer cost - UG	\$18,043.97	\$19,321.37	\$ 1,277.40		\$ 6.08	
Secondary Cable cost	\$14,729.31	\$11,858.87	\$ (2,870.44)		\$ (13.67)	
Secondary Conductor cost	\$11,723.57	\$11,782.52	\$ 58.95		\$ (0.28)	
Service Conductor cost	\$8,561.98	\$8,625.59	\$ 63.61		\$ (0.30)	
Other Material					\$ (24.98)	
<b>Material Impact</b>					<b>\$ (112.63)</b>	<b>77.14%</b>

Overhead Transformers	Size	2008	2010	\$ Change per	% Change per
		Cost per	Cost per		
441-12500-5	25	\$480.45	\$768.77	\$288.32	60%
441-15000-0	50	\$693.59	\$1,118.62	\$425.04	61%
441-17500-2	75	\$1,177.88	\$1,695.71	\$517.83	44%

Underground Transformers	Size	2008	2010	\$ Change per	% Change per
		Cost per	Cost per		
459-48100-8	50	\$1,607.82	\$1,724.50	\$116.68	7%
459-48200-4	75	\$1,767.06	\$1,909.55	\$142.49	8%

Poles	Size	2008	2010	\$ Change per	% Change per
		Cost per	Cost per		
151-18000-0	35/4	\$169.07	\$199.27	\$30.19	18%
151-18900-1	40/3	\$207.70	\$290.61	\$82.90	40%
151-19400-5	45/2	\$279.42	\$396.91	\$117.49	42%

Conduit and Cable	Size	2008	2010	\$ Change per	% Change per
		Cost/Ft	Cost/Ft		
164-33100-6	2"	\$0.43	\$0.29	-\$0.12	-27%
100-25000-5	1/0 TPX (UG)	\$0.95	\$0.73	-\$0.27	-29%
100-25300-4	4/0 TPX (UG)	\$1.40	\$1.03	-\$0.49	-35%

### Summary of Changes:

The calculated 2010 URD pre-operational meter pedestal cost differential is -\$189.86 compared to -\$43.85 in 2008. Since the differential is a negative amount, the charge is set at \$0. Similar to the low and high density differential changes, increasing overhead major material costs and decreasing underground major material costs are the primary factors for the calculated differential being more negative in 2010 than in 2008.

**2010 URD TARIFF LABOR CHANGES**

**METER PEDESTAL**

(\$189.86)		-	(\$43.85)	=	(\$146.01)	=	332.98%
<u>LABOR</u>			<u>2008</u>	<u>2010</u>	<u>%INC</u>	<u>\$ Diff.</u> <u>Impact</u>	<u>% Diff.</u> <u>Impact</u>
1. Labor Rate (Per MH)	OH		\$109.13	\$118.87	8.93%	(\$31.79)	21.77%
	UG		\$97.48	\$109.47	12.30%	\$37.84	-25.91%
2. Manhours	OH		574.40	592.64	3.18%	(\$11.31)	7.75%
	UG		571.87	579.85	1.40%	\$5.74	-3.93%
3. EO/CO Rate Base			27.26%	38.94%	42.85%	(\$3.94)	2.70%
			(\$33.73)	(\$33.91)	0.52%	(\$0.05)	0.03%
Labor Impact on Differential.....						<b>(\$3.51)</b>	<b>2.40%</b>

**2010 OVERHEAD LABOR COSTS**

	<b><u>LOW DENSITY</u></b>			<b><u>HIGH DENSITY</u></b>			<b><u>METER PEDESTAL</u></b>			
	<b><u>2008</u></b>	<b><u>2010</u></b>	<b><u>%INC.</u></b>	<b><u>2008</u></b>	<b><u>2010</u></b>	<b><u>%INC.</u></b>	<b><u>2008</u></b>	<b><u>2010</u></b>	<b><u>%INC.</u></b>	
1. SERVICE	\$131.31	\$146.08	11.25%	\$117.79	\$131.86	11.94%	\$69.67	\$77.81	11.68%	1. SERVICE
2. PRIMARY	\$118.50	\$106.38	-10.23%	\$51.20	\$56.45	10.25%	\$48.13	\$59.83	24.31%	2. PRIMARY
3. SECONDARY	\$112.67	\$179.96	59.72%	\$123.34	\$138.19	12.04%	\$95.88	\$119.73	24.87%	3. SECONDARY
4. POLES	\$291.07	\$305.09	4.82%	\$215.72	\$221.56	2.71%	\$142.50	\$151.33	6.20%	4. POLES
5. TRANSFORMER	\$59.63	\$38.07	-36.16%	\$24.49	\$28.16	14.99%	\$24.49	\$28.16	14.99%	5. TRANSFORMER
6. EO	<u>\$136.09</u>	<u>\$211.41</u>	<u>55.35%</u>	<u>\$101.62</u>	<u>\$157.07</u>	<u>54.57%</u>	<u>\$72.64</u>	<u>\$119.08</u>	<u>63.93%</u>	6. EO
7. TOTAL	\$849.27	\$986.99	16.22%	634.16	733.29	15.63%	\$453.31	\$555.94	22.64%	7. TOTAL

**LOW DENSITY**

1. INCREASED LABOR RATE (\$109.13 TO \$118.87)
2. DECREASED TX RELATED EQUIPMENT INSTALLED
3. INCREASED LABOR RATE & INCREASED QTY CONDUCTOR
4. INCREASED LABOR RATE & DECREASED HAULING COST
5. DECREASED TX QTY (61 TO 35) INSTALLED
6. HIGHER BASE \$713.18 TO \$775.58

**HIGH DENSITY**

1. INCREASED LABOR RATE (\$109.13 TO \$118.87)
2. INCREASED LABOR RATE & CHANGE IN FRAMING
3. INCREASED LABOR RATE
4. INCREASED LABOR RATE & DECREASED HAULING COST
5. INCREASED LABOR RATE
6. HIGHER BASE \$532.54 TO \$576.22

**METER PEDESTAL**

1. INCREASED LABOR RATE (\$109.13 TO \$118.87)
2. INCREASED LABOR RATE & INCREASED CONDUCTOR QTY
3. INCREASED LABOR RATE & INCREASED CONDUCTOR QTY
4. INCREASED LABOR RATE & DECREASED HAULING COST
5. INCREASED LABOR RATE
6. HIGHER BASE \$380.67 TO \$436.86



# 2010 OVERHEAD MATERIAL COSTS

	<u>LOW DENSITY</u>			<u>HIGH DENSITY</u>			<u>METER PEDESTAL</u>			
	<u>2008</u>	<u>2010</u>	<u>%INC.</u>	<u>2008</u>	<u>2010</u>	<u>%INC.</u>	<u>2008</u>	<u>2010</u>	<u>%INC.</u>	
1. SERVICE	\$102.00	\$94.95	-6.91%	\$83.00	\$79.79	-3.87%	\$51.99	\$53.51	2.92%	1. SERVICE
2. PRIMARY	\$36.18	\$29.03	-19.76%	\$11.30	\$13.25	17.26%	\$10.98	\$13.92	26.78%	2. PRIMARY
3. SECONDARY	\$70.72	\$129.78	83.51%	\$96.07	\$92.69	-3.52%	\$71.19	\$73.09	2.67%	3. SECONDARY
4. POLES	\$177.08	\$230.99	30.44%	\$129.62	\$169.88	31.06%	\$91.27	\$125.05	37.01%	4. POLES
5. TRANSFORMER	\$154.57	\$202.28	30.87%	\$121.14	\$184.34	52.17%	\$121.14	\$184.34	52.17%	5. TRANSFORMER
6. STORES LD	\$31.14	\$48.85	56.87%	\$25.41	\$38.39	51.08%	\$19.96	\$31.99	60.27%	6. STORES LD
7. EO	<u>\$109.09</u>	<u>\$200.59</u>	<u>83.88%</u>	<u>\$89.03</u>	<u>\$157.64</u>	<u>77.06%</u>	<u>\$69.94</u>	<u>\$131.36</u>	<u>87.82%</u>	7. EO
8. TOTAL	\$680.78	\$936.47	37.56%	\$555.57	\$735.98	32.47%	\$436.47	\$613.26	40.50%	8. TOTAL

## LOW DENSITY

1. LOWER COST OF 1/0 TPX (\$0.79/FT TO \$0.60/FT)
2. REDUCED FUSE SWITCH QTY DUE TO REDUCED TX COUNT
3. INCREASED 3/0 TPX QTY DUE TO REDUCED TX COUNT
4. INCREASED COST OF POLES \$195.76 AVG TO \$259.78 AVG
5. INCREASED COST OF TRANSFORMERS (\$497.92 AVG TO \$1111.62 AVG)  
REDUCED TRANSFORMER QTY (61 TO 35)
6. HIGHER TOTAL MATERIAL COST.
7. HIGHER BASE \$571.69 TO \$735.88  
HIGHER EO RATE 19.082% TO 27.258%

## HIGH DENSITY

1. LOWER COST OF 1/0 TPX (\$0.79/FT TO \$0.60/FT)
2. HIGHER COST OF 1/0 ALUMINUM CONDUCTOR \$0.19 TO \$0.20  
CHANGE TO INSULATED #4C AT FUSES (\$0.45/FT TO \$1.31/FT)
3. CHANGE NOT SIGNIFICANT
4. INCREASED COST OF POLES \$193.14 AVG TO \$253.96 AVG
5. INCREASED COST OF TRANSFORMERS (\$950.03 AVG TO \$1415.07 AVG)
6. HIGHER TOTAL MATERIAL COST.
7. HIGHER BASE \$466.54 TO \$578.34  
HIGHER EO RATE 19.082% TO 27.258%

## METER PEDESTAL

1. CHANGE NOT SIGNIFICANT
2. HIGHER COST OF 1/0 ALUMINUM CONDUCTOR \$0.19 TO \$0.20  
CHANGE TO INSULATED #4C AT FUSES (\$0.45/FT TO \$1.31/FT)
3. CHANGE NOT SIGNIFICANT
4. INCREASED COST OF POLES \$210.46 AVG TO \$293.33 AVG
5. INCREASED COST OF TRANSFORMERS (\$950.03 AVG TO \$1415.07 AVG)
6. HIGHER TOTAL MATERIAL COST.
7. HIGHER BASE \$366.53 TO \$481.90  
HIGHER EO RATE 19.082% TO 27.258%

# 2010 UNDERGROUND LABOR COSTS

	<u>LOW DENSITY</u>			<u>HIGH DENSITY</u>			<u>METER PEDESTAL</u>			
	<u>2008</u>	<u>2010</u>	<u>%INC.</u>	<u>2008</u>	<u>2010</u>	<u>%INC.</u>	<u>2008</u>	<u>2010</u>	<u>%INC.</u>	
1. SERVICE	\$260.71	\$296.31	13.66%	\$207.30	\$254.19	22.62%	\$23.34	\$61.21	162.25%	1. SERVICE
2. PRIMARY	\$227.17	\$232.41	2.31%	\$135.21	\$141.11	4.36%	\$116.71	\$123.36	5.70%	2. PRIMARY
3. SECONDARY	\$80.74	\$82.17	1.77%	\$49.40	\$44.43	-10.06%	\$90.73	\$82.15	-9.46%	3. SECONDARY
4. TRANSFORMER	\$13.58	\$18.30	34.76%	\$8.10	\$12.31	51.98%	\$6.75	\$10.25	51.85%	4. TRANSFORMER
5. P/S TRENCH	\$214.50	\$246.09	14.73%	\$129.50	\$148.58	14.73%	\$107.09	\$122.87	14.74%	5. P/S TRENCH
6. SVC TRENCH	\$190.33	\$218.36	14.73%	\$105.74	\$155.97	47.50%	-----	-----	N/A	6. SVC TRENCH
7. EO	<u>\$188.35</u>	<u>\$298.10</u>	<u>58.27%</u>	<u>\$121.22</u>	<u>\$206.23</u>	<u>70.13%</u>	<u>\$65.76</u>	<u>\$108.99</u>	<u>65.74%</u>	7. EO
8. TOTAL	\$1,175.38	\$1,391.74	18.41%	\$756.47	\$962.82	27.28%	\$410.38	\$508.83	23.99%	8. TOTAL

## LOW DENSITY

1. INCREASED LABOR RATE \$97.48 TO \$109.47, DECREASED CMH
2. DECREASED LABOR VALUE FOR TERMINATIONS
3. NEW MULTI-TAP WITH LESS LABOR, LABOR SHIFT TO TX
4. INCREASED LABOR RATE, LABOR SHIFT FROM SECONDARY
5. INCREASED LABOR RATE
6. INCREASED LABOR RATE
7. HIGHER BASE \$987.03 TO \$1,093.64  
HIGHER EO RATE 19.082% TO 27.258%

## HIGH DENSITY

1. INCREASED LABOR RATE \$97.48 TO \$109.47, INCREASED CMH  
INCREASED CMH (SERVICE LENGTH INCREASE TO MATCH OH)
2. DECREASED LABOR VALUE FOR TERMINATIONS
3. NEW MULTI-TAP WITH LESS LABOR, LABOR SHIFT TO TX
4. INCREASED LABOR RATE, LABOR SHIFT FROM SECONDARY
5. INCREASED LABOR RATE
6. INCREASED LABOR RATE, INCREASED CMH
7. HIGHER BASE \$635.25 TO \$756.59  
HIGHER EO RATE 19.082% TO 27.258%

## METER PEDESTAL

1. INCREASED LABOR RATE \$97.48 TO \$109.47  
INCREASED CMH (SERVICE CONNECTIONS)
2. DECREASED LABOR VALUE FOR TERMINATIONS
3. NEW MULTI-TAP WITH LESS LABOR, LABOR SHIFT
4. INCREASED LABOR RATE, LABOR SHIFT FROM SEC
5. INCREASED LABOR RATE
6. N/A
7. HIGHER BASE \$344.62 TO \$399.84  
HIGHER EO RATE 19.082% TO 27.258%

**2010 UNDERGROUND MATERIAL COSTS**

	<b><u>LOW DENSITY</u></b>			<b><u>HIGH DENSITY</u></b>			<b><u>METER PEDESTAL</u></b>			
	<b><u>2008</u></b>	<b><u>2010</u></b>	<b><u>%INC.</u></b>	<b><u>2008</u></b>	<b><u>2010</u></b>	<b><u>%INC.</u></b>	<b><u>2008</u></b>	<b><u>2010</u></b>	<b><u>%INC.</u></b>	
<b>1. SERVICE</b>	\$145.21	\$126.77	-12.70%	\$153.41	\$137.14	-10.61%	\$25.66	\$30.97	20.69%	<b>1. SERVICE</b>
<b>2. PRIMARY</b>	\$240.87	\$224.79	-6.68%	\$123.48	\$118.57	-3.98%	\$119.80	\$120.79	0.83%	<b>2. PRIMARY</b>
<b>3. SECONDARY</b>	\$109.49	\$102.79	-6.12%	\$45.78	\$36.32	-20.66%	\$88.00	\$73.57	-16.40%	<b>3. SECONDARY</b>
<b>4. TRANSFORMER</b>	\$208.92	\$228.43	9.34%	\$127.60	\$140.14	9.83%	\$108.97	\$119.86	9.99%	<b>4. TRANSFORMER</b>
<b>5. STORES LDG</b>	\$41.00	\$46.53	13.49%	\$26.21	\$30.73	17.25%	\$19.93	\$24.54	23.13%	<b>5. STORES LDG</b>
<b>6. EO</b>	<u>\$124.62</u>	<u>\$198.80</u>	<u>59.52%</u>	<u>\$79.65</u>	<u>\$126.18</u>	<u>58.42%</u>	<u>\$60.57</u>	<u>\$100.78</u>	<u>66.39%</u>	<b>6. EO</b>
<b>7. TOTAL</b>	\$684.24	\$928.11	35.64%	\$556.13	\$589.08	5.92%	\$422.93	\$470.51	11.25%	<b>7. TOTAL</b>

**LOW DENSITY**

1. LOWER COST OF 1/0 TPXB (\$0.95/FT TO \$0.73/FT)
2. LOWER COST OF 1/0 PRIMARY (\$1.41/FT TO \$1.36/FT)
3. LOWER COST OF 4/0 TPXB (\$1.40/FT TO \$1.03/FT)
4. HIGHER COST OF TXS (\$1621.09 AVG TO \$1739.92 AVG)
5. HIGHER TOTAL MATERIAL COST
6. HIGHER BASE \$559.62 TO \$729.31  
HIGHER EO RATE 19.082% TO 27.258%

**HIGH DENSITY**

1. LOWER COST OF 1/0 TPXB (\$0.95/FT TO \$0.73/FT)
2. LOWER COST OF 1/0 PRIMARY (\$1.41/FT TO \$1.36/FT)
3. LOWER COST OF 4/0 TPXB (\$1.40/FT TO \$1.03/FT)
4. HIGHER COST OF TXS (\$1660.90 AVG TO \$1786.18 AVG)
5. HIGHER TOTAL MATERIAL COST
6. LOWER BASE \$476.48 TO \$462.90  
HIGHER EO RATE 19.082% TO 27.258%

**METER PEDESTAL**

1. HIGHER COST OF METERS (\$24.06 TO \$28.37)
2. CHANGE NOT SIGNIFICANT
3. LOWER COST OF 4/0 TPXB (\$1.40/FT TO \$1.03/FT)
4. HIGHER COST OF TRANSFORMERS (\$1703.36 AVG T
5. HIGHER TOTAL MATERIAL COST
6. HIGHER BASE \$362.36 TO \$369.73  
HIGHER EO RATE 19.082% TO 27.258%

LOW DENSITY SUMMARY 1993 to 2010

	1993	1994	1995	1996	1997	1998	2001	2002	2005	2007	2008	2010	% CHANGE 08 to 10	% CHANGE 93 TO 10
UG EFFECTIVE MECA RATE	\$52.12	\$51.46	\$53.49	\$53.49	\$59.90	\$55.92	\$66.17	\$63.29	\$78.20	\$89.82	\$97.48	\$109.47	12.30%	110.03%
OH EFFECTIVE MECA RATE	\$60.28	\$65.93	\$53.99	\$53.99	\$60.51	\$62.91	\$68.81	\$67.29	\$80.21	\$100.25	\$109.13	\$118.87	8.93%	97.20%
MANHOURS LD-OH	1060	1052	1052	1144	1144	1144	1227	1297	1288.27	1287.72	1284.08	1256.1	-2.18%	18.50%
MANHOURS LD-UG	1799	1863	1861	1775	1776	1801	1811	1955	1943.54	2006.63	1953.36	1898.1	-2.83%	5.51%
OH-LABOR \$ PER LOT	\$310	\$340	\$278	\$327	\$358	\$370	\$429	\$446	\$526	\$653	\$713	\$776	8.75%	150.19%
UG-LABOR \$ PER LOT	\$457	\$473	\$487	\$502	\$551	\$519	\$615	\$632	\$774	\$919	\$987	\$1,094	10.80%	139.31%
OH-MATERIAL \$/LOT	\$306	\$316	\$342	\$412	\$383	\$390	\$406	\$390	\$425	\$501	\$541	\$687	27.10%	124.52%
UG-MATERIAL \$/LOT	\$372	\$378	\$398	\$457	\$447	\$465	\$489	\$501	\$543	\$704	\$730	\$683	-6.49%	83.54%
DIFFERENTIAL \$/LOT	\$261	\$246	\$329	\$277	\$309	\$268	\$325	\$367	\$444	\$563	\$563	\$396	-29.62%	51.87%
STORES LDG.\$/LOT	\$21.25	\$28.20	\$36.09	\$46.17	\$34.35	\$32.65	\$27.61	\$26.59	\$25.88	\$29.16	\$31.14	\$48.85	56.87%	129.88%
ENGINEERING & OH	\$125.99	\$153.23	\$143.14	\$181.46	\$136.92	\$124.29	\$161.57	\$174.53	\$184.33	\$197.70	\$245.18	\$412.00	68.04%	227.01%
HANDY-WHITMAN INDEX *	267	270	280	288	288	290	304	313	354	375	461	523	13.45%	95.88%
HANDY-WHITMAN %	N/A	1.12%	3.70%	2.86%	0.00%	0.69%	4.83%	2.96%	13.10%	5.93%	22.93%	13.45%		
CPI INDEX **	141.9	145.8	149.7	153.5	158.6	161.3	174.0	176.7	190.3	201.8	210.0	215.9	2.82%	52.18%
CPI %	N/A	2.75%	2.67%	2.54%	3.32%	1.70%	7.87%	1.55%	7.70%	6.04%	4.08%	2.82%		

\* HANDY-WHITMAN TABLE E-2 TOTAL DISTRIBUTION PLANT FOR JULY 1 OF PREVIOUS YEAR

\*\* CPI FOR ALL URBAN CONSUMERS (CPI-U) FOR DECEMBER OF PREVIOUS YEAR

2010 URD TARIFF HISTORICAL \$

LOW DENSITY	1990	1991	1992	1993	1994	1995	1996	1997	1998	2001	2002	2005	2007	2008	2010	% Change 90 to 10
Overhead	\$743	\$737	\$763	\$764	\$837	\$799	\$967	\$913	\$916	\$989	\$1,037	\$1,161	\$1,380	\$1,530	\$1,923	158.88%
% Change OH	-1.46%	-0.81%	3.53%	0.13%	9.55%	-4.54%	21.03%	-5.58%	0.33%	7.97%	4.85%	11.93%	18.93%	10.84%	25.71%	
Underground	\$1,078	\$1,100	\$1,092	\$1,025	\$1,083	\$1,129	\$1,244	\$1,222	\$1,184	\$1,365	\$1,403	\$1,605	\$1,943	\$2,093	\$2,320	115.20%
% Change UG	-0.19%	2.04%	-0.73%	-6.14%	5.66%	4.25%	10.19%	-1.77%	-3.11%	15.29%	2.78%	14.38%	21.09%	7.72%	10.82%	
Differential	\$335	\$363	\$329	\$261	\$246	\$329	\$277	\$309	\$268	\$376	\$367	\$444	\$563	\$563	\$396	18.33%
% Change Diff	2.76%	8.36%	-9.37%	-20.67%	-5.75%	33.74%	-15.81%	11.55%	-13.27%	40.30%	-2.39%	20.98%	26.75%	0.08%	-29.62%	
Handy-Whitman	255	263	267	267	270	280	288	288	290	304	313	354	375	461	523	105.10%
% Change H-W	5.81%	3.14%	1.52%	0.00%	1.12%	3.70%	2.86%	0.00%	0.69%	4.83%	2.96%	13.10%	5.93%	22.93%	13.45%	
CPI	126.1	133.8	137.9	141.9	145.8	149.7	153.5	158.6	161.3	174	176.7	190.3	201.8	210.0	215.9	71.25%
% Change CPI	4.65%	6.11%	3.06%	2.90%	2.75%	2.67%	2.54%	3.32%	1.70%	7.87%	1.55%	7.70%	6.04%	4.08%	2.82%	

HIGH DENSITY	1990	1991	1992	1993	1994	1995	1996	1997	1998	2001	2002	2005	2007	2008	2010	% Change 90 to 10
Overhead	\$598	\$614	\$615	\$616	\$655	\$621	\$656	\$610	\$611	\$611	\$686	\$736	\$1,066	\$1,190	\$1,469	145.70%
% Change OH	-1.32%	2.68%	0.16%	0.16%	6.33%	-5.19%	5.64%	-7.01%	0.16%	0.00%	12.27%	7.33%	44.82%	11.58%	23.50%	
Underground	\$823	\$877	\$861	\$778	\$791	\$804	\$849	\$835	\$801	\$930	\$885	\$973	\$1,153	\$1,330	\$1,552	88.57%
% Change UG	0.61%	6.56%	-1.82%	-9.64%	1.67%	1.64%	5.60%	-1.65%	-4.07%	16.10%	-4.84%	9.89%	18.55%	15.35%	16.69%	
Differential	\$225	\$263	\$246	\$162	\$136	\$183	\$193	\$224	\$190	\$309	\$199	\$236	\$87	\$140	\$83	-63.28%
% Change Diff	6.13%	16.89%	-6.46%	-34.15%	-16.05%	34.56%	5.46%	16.06%	-15.18%	62.63%	-35.60%	18.74%	-63.31%	61.70%	-41.06%	
Handy-Whitman	255	263	267	267	270	280	288	288	290	304	313	354	375	461	523	105.10%
% Change H-W	5.81%	3.14%	1.52%	0.00%	1.12%	3.70%	2.86%	0.00%	0.69%	4.83%	2.96%	13.10%	5.93%	22.93%	13.45%	
CPI	126.1	133.8	137.9	141.9	145.8	149.7	153.5	158.6	161.3	174	176.7	190.3	201.8	210.0	215.9	71.25%
% Change CPI	4.65%	6.11%	3.06%	2.90%	2.75%	2.67%	2.54%	3.32%	1.70%	7.87%	1.55%	7.70%	6.04%	4.08%	2.82%	

METER PEDESTAL	1990	1991	1992	1993	1994	1995	1996	1997	1998	2001	2002	2005	2007	2008	2010	% Change 90 to 10
Overhead	\$518	\$530	\$527	\$527	\$559	\$528	\$556	\$516	\$516	\$559	\$582	\$620	\$823	\$890	\$1,169	125.71%
% Change OH	-2.08%	2.32%	-0.57%	0.00%	6.07%	-5.55%	5.30%	-7.19%	0.00%	8.33%	4.11%	6.61%	32.61%	8.14%	31.40%	
Underground	\$623	\$625	\$637	\$528	\$528	\$536	\$559	\$537	\$521	\$633	\$565	\$662	\$785	\$846	\$979	57.20%
% Change UG	5.41%	0.32%	1.92%	-17.11%	0.00%	1.52%	4.29%	-3.94%	-2.98%	21.50%	-10.74%	17.13%	18.57%	7.81%	15.77%	
Differential	\$105	\$95	\$110	\$1	(\$31)	\$8	\$3	\$22	\$4	\$74	(\$17)	\$41	(\$38)	(\$44)	(\$190)	-280.82%
% Change Diff	69.35%	-9.52%	15.79%	-99.09%	-3200.00%	-125.81%	-62.50%	633.33%	-81.82%	1750.00%	-122.97%	-343.00%	-192.28%	15.03%	332.98%	
Handy-Whitman	255	263	267	267	270	280	288	288	290	304	313	354	375	461	523	105.10%
% Change H-W	5.81%	3.14%	1.52%	0.00%	1.12%	3.70%	2.86%	0.00%	0.69%	4.83%	2.96%	13.10%	5.93%	22.93%	13.45%	
CPI	126.1	133.8	137.9	141.9	145.8	149.7	153.5	158.6	161.3	174	176.7	190.3	201.8	210.0	215.9	71.25%
% Change CPI	4.65%	6.11%	3.06%	2.90%	2.75%	2.67%	2.54%	3.32%	1.70%	7.87%	1.55%	7.70%	6.04%	4.08%	2.82%	

UCD

## APPENDIX 1

### UCD

**LEGISLATIVE TARIFF**  
**UCD**



(Continued from Sheet No. 6.500)

13.2.6 Rights of Way and Easements

The Applicant shall record and furnish satisfactory rights of way and easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to the Company prior to the Company initiating construction. Before the Company will start construction, these rights of way and easements must be cleared by the Applicant of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners and survey control points, and graded to within six inches of final grade, with soil stabilized. In addition, the Applicant shall provide stakes showing final grade along the easement. Such clearing and grading must be maintained by the Applicant during construction by the utility.

13.2.7 Contribution and Credits

The Applicant shall pay the required contribution upon receipt of written notification from the Company. No utility construction shall commence prior to execution of the Underground Distribution Facilities Installation Agreement set forth in Tariff Sheet Nos. 9.700, 9.701 and 9.702 and payment in full of the entire contribution. Where, by mutual agreement, the Applicant performs any of the work normally performed by the Company, the Applicant shall receive a credit for such work in accordance with the credit amounts contained herein, provided that the work is in accordance with Company specifications. ~~Such credits shall not exceed the total differential costs.~~ The credit will be granted after the work has been inspected by the Company and, in the case of Applicant-installed conduit, after the Company pulls all applicable conductors.

13.2.8 Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. The Applicant shall provide accessible locations for meters and transformers when the design of a commercial/industrial building or its appurtenances limit perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

13.2.9 Special Conditions

The costs quoted in these rules are based on conditions which permit employment of rapid construction techniques. The Applicant shall be responsible for necessary additional hand digging expenses other than what is normally provided by the Company. The Applicant is responsible for clearing, compacting, stump removal, paving, and addressing other special conditions. Should paving, grass, landscaping or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching and backfilling and be responsible for restoration of property damaged to accommodate the installation of underground facilities.

13.2.10 Point of Delivery

The point of delivery shall be determined by the Company, but normally will be at or near the part of the building nearest the point at which the Company's electric supply is available to the property. When a location for a point of delivery different from that designated by the Company is requested by the Applicant and approved by the Company, the Applicant shall pay the estimated full cost of the primary/secondary lateral length, including labor and materials, required in excess of that which would have been needed to reach the Company's designated point of delivery. Any redesignation requested by the Applicant shall conform to good safety and construction practices as determined by the Company. Laterals shall be installed, where possible, in a direct line to the point of delivery.

13.2.11 Location of Meter and Raceway

The Applicant shall install a meter trough at the point designated by the Company and a raceway to accept the service lateral conductors if needed. Both will be installed in accordance with the Company's specifications.

(Continued on Sheet No. 6.520)

(Continued from Sheet No. 6.510)

## 13.2.12 Contribution by Applicant

The Applicant shall pay the Company the average differential cost between installing overhead and underground distribution facilities based on the following:

- a) Primary lateral, riser (if from overhead termination point), pad mounted transformer and trench with cable-in-conduit not to exceed 150 feet in radials and 300 feet in loops.

	<u>Applicant's Contribution</u>	
	<u>From Overhead Termination Point</u>	<u>From Existing Underground Termination Point</u>
1) Single phase radial	\$ <u>944.87542.58</u>	<del>N/A \$ 000.00</del>
2) Two phase radial	\$ <u>2,258.621,039.67</u>	<del>N/A \$ 000.00</del>
3) Three phase radial (150 KVA)	\$ <u>885.641,793.61</u>	<del>N/A \$ 000.00</del>
4) Three phase radial (300 KVA)	\$ <u>000.00</u>	<del>N/A \$ 000.00</del>
5) Single phase loop	\$ <u>2,394.99011.71</u>	\$ <u>4,316.96908.40</u>
6) Two phase loop	\$ <u>4,562.433,558.62</u>	\$ <u>4,425.061,799.75</u>
7) Three phase loop (150 KVA)	\$ <u>6,236.345,831.31</u>	\$ <u>4,738.193,755.55</u>
8) Three phase loop (300 KVA)	\$ <u>3,135.991,311.43</u>	\$ <u>4,820.03000.00</u>

- b) Secondary riser and lateral, excluding handhole or junction box, with connection to Applicant's service cables no greater than 20 feet from Company riser pole.

1) Small single phase	\$ <u>513.28604.37</u>
2) Large single phase	\$ <u>865.06916.50</u>
3) Small three phase	\$ <u>705.89826.54</u>
4) Large three phase	\$ <u>1,333.831,540.83</u>

- c) FPL service cable installed in customer provided and customer installed 2" PVC (for main line switch size limited to 60 amps for 120V, 2 wire service, or 125 amps for 120/240v, 3 wire service) where customer's meter can is at least 5 feet and no more than 100 feet from the FPL pole.

	<u>120v 60 amp 2 wire service</u>	<u>120/240v 125 amp 3 wire service</u>
1) Installed on a wood pole - accessible locations	\$ <u>596.66740.66</u>	\$ <u>645.89791.61</u>
2) Installed on a wood pole - inaccessible locations	\$ <u>676.85848.82</u>	\$ <u>698.19901.79</u>
3) Installed on a concrete pole - accessible locations	\$ <u>617.79759.37</u>	\$ <u>637.00821.40</u>

- d) Handholes and Padmounted Secondary Junction Box, excluding connections.

1) Handhole	
a. Small - per handhole	\$ <u>478.76212.28</u>
b. Intermediate - per handhole	\$ <u>207.95249.49</u>
c. Large - per handhole	\$ <u>725.72867.45</u>
2) Pad Mounted secondary Junction Box - per box	\$ <u>1,582.743,077.43</u>

- 3) Pad Mounted secondary Junction Cabinet, used when electrical loads exceed the capacity of the secondary junction box (above) or when the number of the service conductors exceed the capacity of the pad mounted transformer. Only applicable if the customer's service conductor diameter is less than 500 MCM.

Per cabinet (includes connecting up to 12 sets of conductor)	\$ <u>11,477.4412,711.02</u>
Tapping service conductors (if more than 12 sets) - per set	\$ <u>64.4879.08</u>

(Continued on Sheet No. 6.530)

(Continued from Sheet No. 6.520)

- e) Primary splice box including splices and cable pulling set-up.

1) Single Phase - per box	\$1,253.76
2) Two Phase - per box	\$1,763.18
3) Three Phase - per box	\$1,938.57

- f) Additional installation charge for underground primary laterals including trench and cable-in-conduit which exceed the limits set in 13.2.12 a).

1) Single Phase - per foot	\$1,330.82
2) Two Phase - per foot	\$1,432.89
3) Three Phase - per foot	\$1,352.56

- g) Additional installation charge for underground primary laterals including trench and cable-in-conduit extended beyond the Company designated point of delivery to a remote point of delivery.

1) Single Phase - per foot	\$ 7,308.30
2) Two Phase - per foot	\$10,881.21
3) Three Phase - per foot	\$12,041.55

- h) The above costs are based upon arrangements that will permit serving the local underground distribution system within the commercial/industrial development from overhead feeder mains. If feeder mains within the commercial/industrial development are deemed necessary by the company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the company the average differential cost between such underground feeder mains within the commercial/industrial development and equivalent overhead feeder mains, as follows:

	Applicant's Contribution
Cost per foot of feeder trench within the commercial/industrial development (excluding switches)	\$ 12.89
Cost per switch package	\$21,315.92

- i) The Company will provide one standby/assistance appointment to the Applicant at no additional charge to assist with installation of the Applicant's conductors and conduit(s) into a padmounted transformer, pedestal or vault (not to exceed four hours in duration) during normal hours of operation. Additional appointments will be provided upon request, at the Applicant's expense.

(Continued on Sheet 6.540)

(Continued from Sheet No. 6.530)

13.2.13 Contribution Adjustments

- a) Credits will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant provides trenching and backfilling for the Company's facilities.

Credit to the  
Applicant's  
Contribution

- |  |                        |
|--|------------------------|
| 1) Credit per foot of primary trench   | \$ <del>2,833.17</del> |
| 2) Credit per foot of secondary trench | \$ <del>2,632.96</del> |

- b) Credits will be allowed to the Applicant's contribution in section 13.2.12. where, by mutual agreement, the Applicant installs Company-provided conduit per Company instructions.

- |  |          |
|--|----------|
| 1) Credit per foot of 2" conduit             | \$0.4955 |
| 2) Credit per foot of larger than 2" conduit | \$0.6877 |

- c) Credit will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant installs a Company-provided handhole per Company instructions,

- |   |                          |
|---|--------------------------|
| 1) Credit per large handhole/primary splice box | \$ <del>189,142.37</del> |
| 2) Credit per small handhole                    | \$ <del>49,7455.83</del> |

- d) Credit will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant installs a Company-provided concrete pad for a pad-mounted transformer or pad-mounted capacitor bank per Company instructions,

Credit per pad	\$ <del>29,2454.74</del>
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- e) Credit will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant installs Company-provided concrete pad for a pad-mounted feeder switch chamber per Company instructions,

Credit per pad	\$ <del>459,13515.60</del>
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- f) Credit will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant installs Company-provided concrete pad for a feeder splice box per Company instructions,

Credit per splice box	\$ <del>717,45606.46</del>
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**FINAL TARIFF**  
**UCD**

(Continued from Sheet No. 6.500)

13.2.6 Rights of Way and Easements

The Applicant shall record and furnish satisfactory rights of way and easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to the Company prior to the Company initiating construction. Before the Company will start construction, these rights of way and easements must be cleared by the Applicant of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners and survey control points, and graded to within six inches of final grade, with soil stabilized. In addition, the Applicant shall provide stakes showing final grade along the easement. Such clearing and grading must be maintained by the Applicant during construction by the utility.

13.2.7 Contribution and Credits

The Applicant shall pay the required contribution upon receipt of written notification from the Company. No utility construction shall commence prior to execution of the Underground Distribution Facilities Installation Agreement set forth in: Tariff Sheet Nos. 9.700, 9.701 and 9.702 and payment in full of the entire contribution. Where, by mutual agreement, the Applicant performs any of the work normally performed by the Company, the Applicant shall receive a credit for such work in accordance with the credit amounts contained herein, provided that the work is in accordance with Company specifications. Such credits shall not exceed the total differential costs. The credit will be granted after the work has been inspected by the Company and, in the case of Applicant-installed conduit, after the Company pulls all applicable conductors.

13.2.8 Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. The Applicant shall provide accessible locations for meters and transformers when the design of a commercial/industrial building or its appurtenances limit perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

13.2.9 Special Conditions

The costs quoted in these rules are based on conditions which permit employment of rapid construction techniques. The Applicant shall be responsible for necessary additional hand digging expenses other than what is normally provided by the Company. The Applicant is responsible for clearing, compacting, stump removal, paving, and addressing other special conditions. Should paving, grass, landscaping or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching and backfilling and be responsible for restoration of property damaged to accommodate the installation of underground facilities.

13.2.10 Point of Delivery

The point of delivery shall be determined by the Company, but normally will be at or near the part of the building nearest the point at which the Company's electric supply is available to the property. When a location for a point of delivery different from that designated by the Company is requested by the Applicant and approved by the Company, the Applicant shall pay the estimated full cost of the primary/secondary lateral length, including labor and materials, required in excess of that which would have been needed to reach the Company's designated point of delivery. Any redesignation requested by the Applicant shall conform to good safety and construction practices as determined by the Company. Laterals shall be installed, where possible, in a direct line to the point of delivery.

13.2.11 Location of Meter and Raceway

The Applicant shall install a meter trough at the point designated by the Company and a raceway to accept the service lateral conductors if needed. Both will be installed in accordance with the Company's specifications.

(Continued on Sheet No. 6.520)

(Continued from Sheet No. 6.510)

13.2.12 Contribution by Applicant

The Applicant shall pay the Company the average differential cost between installing overhead and underground distribution facilities based on the following:

- a) Primary lateral, riser (if from overhead termination point), pad mounted transformer and trench with cable-in-conduit not to exceed 150 feet in radials and 300 feet in loops.

	<u>Applicant's Contribution</u>	
	<u>From Overhead Termination Point</u>	<u>From Existing Underground Termination Point</u>
1) Single phase radial	\$ 542.58	\$ 000.00
2) Two phase radial	\$1,039.67	\$ 000.00
3) Three phase radial (150 KVA)	\$1,793.61	\$ 000.00
4) Three phase radial (300 KVA)	\$ 000.00	\$ 000.00
5) Single phase loop	\$2,011.71	\$ 908.40
6) Two phase loop	\$3,558.62	\$1,799.75
7) Three phase loop (150 KVA)	\$5,831.31	\$3,755.55
8) Three phase loop (300 KVA)	\$1,311.43	\$ 000.00

- b) Secondary riser and lateral, excluding handhole or junction box, with connection to Applicant's service cables no greater than 20 feet from Company riser pole.

1) Small single phase	\$ 604.37
2) Large single phase	\$ 916.50
3) Small three phase	\$ 826.54
4) Large three phase	\$1,540.83

- c) FPL service cable installed in customer provided and customer installed 2" PVC (for main line switch size limited to 60 amps for 120V, 2 wire service, or 125 amps for 120/240v, 3 wire service) where customer's meter can is at least 5 feet and no more than 100 feet from the FPL pole.

	<u>120v 60 amp 2 wire service</u>	<u>120/240v 125 amp 3 wire service</u>
1) Installed on a wood pole - accessible locations	\$ 740.66	\$ 791.61
2) Installed on a wood pole - inaccessible locations	\$ 848.82	\$ 901.79
3) Installed on a concrete pole - accessible locations	\$ 759.37	\$ 821.40

- d) Handholes and Padmounted Secondary Junction Box, excluding connections.

1) Handhole	
a. Small - per handhole	\$ 212.28
b. Intermediate - per handhole	\$ 249.49
c. Large - per handhole	\$ 867.45

2) Pad Mounted secondary Junction Box - per box	\$3,077.43
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- 3) Pad Mounted secondary Junction Cabinet, used when electrical loads exceed the capacity of the secondary junction box (above) or when the number of the service conductors exceed the capacity of the pad mounted transformer. Only applicable if the customer's service conductor diameter is less than 500 MCM.

Per cabinet (includes connecting up to 12 sets of conductor)	\$12,711.02
Tapping service conductors (if more than 12 sets) - per set	\$ 79.08

(Continued on Sheet No. 6.530)

(Continued from Sheet No. 6.520)

- e) Primary splice box including splices and cable pulling set-up.
- |                           |            |
|---------------------------|------------|
| 1) Single Phase - per box | \$1,512.32 |
| 2) Two Phase - per box    | \$2,134.32 |
| 3) Three Phase - per box  | \$2,313.69 |
- f) Additional installation charge for underground primary laterals including trench and cable-in-conduit which exceed the limits set in 13.2.12 a).
- |                            |         |
|----------------------------|---------|
| 1) Single Phase - per foot | \$ 0.82 |
| 2) Two Phase - per foot    | \$ 2.89 |
| 3) Three Phase - per foot  | \$ 2.56 |
- g) Additional installation charge for underground primary laterals including trench and cable-in-conduit extended beyond the Company designated point of delivery to a remote point of delivery.
- |                            |          |
|----------------------------|----------|
| 1) Single Phase - per foot | \$ 8.30  |
| 2) Two Phase - per foot    | \$ 12.21 |
| 3) Three Phase - per foot  | \$ 13.55 |
- h) The above costs are based upon arrangements that will permit serving the local underground distribution system within the commercial/industrial development from overhead feeder mains. If feeder mains within the commercial/industrial development are deemed necessary by the company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the company the average differential cost between such underground feeder mains within the commercial/industrial development and equivalent overhead feeder mains, as follows:
- |  |                                 |
|--|---------------------------------|
|  | <u>Applicant's Contribution</u> |
| Cost per foot of feeder trench within the commercial/industrial development (excluding switches) | \$ 12.19                        |
| Cost per switch package  | \$25,697.99                     |
- i) The Company will provide one standby/assistance appointment to the Applicant at no additional charge to assist with installation of the Applicant's conductors and conduit(s) into a padmounted transformer, pedestal or vault (not to exceed four hours in duration) during normal hours of operation. Additional appointments will be provided upon request, at the Applicant's expense.

(Continued on Sheet 6.540)



(Continued from Sheet No. 6.530)

13.2.13 Contribution Adjustments

- a) Credits will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant provides trenching and backfilling for the Company's facilities.

Credit to the  
Applicant's  
Contribution

1) Credit per foot of primary trench	\$ 3.17
2) Credit per foot of secondary trench	\$ 2.96

- b) Credits will be allowed to the Applicant's contribution in section 13.2.12. where, by mutual agreement, the Applicant installs Company-provided conduit per Company instructions.

1) Credit per foot of 2" conduit	\$ 0.55
2) Credit per foot of larger than 2" conduit	\$ 0.77

- c) Credit will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant installs a Company-provided handhole per Company instructions,

1) Credit per large handhole/primary splice box	\$ 212.37
2) Credit per small handhole	\$ 55.83

- d) Credit will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant installs a Company-provided concrete pad for a pad-mounted transformer or pad-mounted capacitor bank per Company instructions,

Credit per pad	\$ 54.74
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- e) Credit will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant installs Company-provided concrete pad for a pad-mounted feeder switch chamber per Company instructions,

Credit per pad	\$ 515.60
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- f) Credit will be allowed to the Applicant's contribution in Section 13.2.12. where, by mutual agreement, the Applicant installs Company-provided concrete pad for a feeder splice box per Company instructions,

Credit per splice box	\$ 606.46
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## **APPENDIX 2**

### **UCD**

Appendix No.2  
FPL  
2010 UCD Tariff  
Explanation of Proposed Revisions

This appendix is to summarize proposed revisions to Sections 11 and 13 of FPL's General Rules and Regulations for Electric Service. An explanation of FPL's proposed tariff changes for underground commercial installations can be found in Appendix No. 3.

The following modifications have been made to these sections:

Sheet 6.510: Added "Such credit shall not exceed the total differential costs" to clarify that credits provided for customer work cannot exceed the differential charges (per FAC 25-6.078 paragraph 7).

# 2010 UCD Tariff Basis Design Criteria and Assumptions

## I. General

Voltage – 13.2 kV

Overhead Distribution – wood poles

Underground Distribution – Cable-in-Conduit with aluminum conductor XPE-J insulated cables in direct buried conduit with above-grade appurtenances.

## II. Overhead Design – Modified Vertical Framing

### A. Primary lateral, transformer, and service

	1 Phase	2 Phase	3 Phase (150 KVA)	3 Phase (300 KVA)
Primary Length	150 feet	150 feet	150 feet	150 feet
Primary Conductors	2#1/0 AAAC	3#1/0 AAAC	4#1/0 AAAC	4#1/0 AAAC
Primary Poles	1-40/3	1-40/3	1-45/2	1-45 III H
Service Length	50 feet	50 feet	50 feet	50 feet
Service Conductors	#3/0A TPX	336A QPX	2-336A QPX	2-556A QPX
Transformer	50 KVA	50 & 50 KVA	3-50KVA	3-100 KVA
Voltage	120/240V	120/240V	120/208V	120/208V
Manhours	19	29	39	42

### B. Secondary/Service Laterals

	Small 1 Phase	Large 1 Phase	Small 3 Phase	Large 3 Phase
Length	50 feet	50 feet	50 feet	50 feet
Conductor	#1/0A TPX	556A QPX	#1/0A QPX	556A QPX
Manhours	1	2	1	2

### C. Handholes and Pad Mounted Secondary Junction Box

No Overhead used

### D. Primary Splice Box

No Overhead Used

### **E. Additional Charge for Underground Primary Lateral Exceeding Basic Length**

Single Phase	1,000 feet 2#1/0 AAAC, 4 - 40'3 Poles
Two Phase	1,000 feet 3#1/0 AAAC, 4 - 40'3 Poles
Three Phase	1,000 feet 4#1/0 AAAC, 4 - 40'2 Poles

### **F. Additional Charge for Underground Primary Lateral to a Remote Point of Delivery**

No Overhead Used

## **III. Underground Design Criteria**

### **A.1 Primary lateral, riser, padmounted transformer and trench with Cable in Conduit**

	1 Phase	2 Phase	3 Phase	3 Phase
Trench length (radial)	150 feet	150 feet	150 feet	150 feet
Trench length (loop)	300 feet	300 feet	300 feet	300 feet
Trench cover	36 inches	36 inches	36 inches	36 inches
Conductor size	#1/0A 25kV XPE	2#1/0A 25kV XPE	3#1/0A 25kV XPE	3#1/0A 25kV XPE
Conduit Size	1-2 inch	2-2 inch	1-5 inch	1-5 inch
Riser Length	30 feet	30 feet	30 feet	30 feet
Riser Size	2 inch U-guard	5 inch U-guard	5 inch U-guard	5 inch U-guard
Transformer Size	50 KVA	50 & 50 KVA	150 KVA	300 KVA
Voltage	120/240 V	120/240 V	120/208 V	120/208 V
Manhours (radial)	19	26	26	26
Manhours (loop)	26	37	34	36

### **A.2 Primary lateral, UG source, padmounted transformer and trench with Cable in Conduit**

	1 Phase	2 Phase	3 Phase	3 Phase
Trench length	300 feet	300 feet	300 feet	300 feet
Trench cover	36 inches	36 inches	36 inches	36 inches
Conductor size	#1/0A 25kV XPE	2#1/0A 25kV XPE	3#1/0A 25kV XPE	3#1/0A 25kV XPE
Conduit Size	1-2 inch	2-2 inch	1-5 inch	1-5 inch
Transformer Size	50 KVA	50 & 50 KVA	150 KVA	300 KVA
Voltage	120/240 V	120/240 V	120/208 V	120/208 V
Manhours (radial)	15	22	17	17
Manhours (loop)	21	30	26	26

## **B. Secondary/Service lateral and riser with multiple connectors.**

	Small 1 Phase	Large 1 Phase	Small 3 Phase	Large 3 Phase
Trench length	10 feet	10 feet	10 feet	10 feet
Trench cover	24 inch	24 inch	24 inch	24 inch
Conductor Size	#4/0A TPX	3-750A	#4/0A QPX	4-750A
Conduit size	2 inch	5 inch	5 inch	5 inch
Riser length	30 feet	30 feet	30 feet	30 feet
Riser size	2 inch U-guard	5 inch U-guard	5 inch U-guard	5 inch U-guard
Manhours	3.9	5.0	4.6	6.4

## **C. Handholes and Padmounted Secondary Junction Box and Cabinet**

Small handhole	- 24 inch handhole
Intermediate Handhole	- 30 inch handhole
Large Handhole	- 48 inch handhole
Secondary Junction box	- Replacement cabinet and Connectors per I - 74.1
Sec. Junction Cabinet	- Three-Phase Secondary Cabinet and Connectors (22-Port) per I - 75.0.0

## **D. Primary Splice Box**

Single Phase - 48" handhole with one molded splice and one pull set-up and basket  
Two Phase - 48" handhole with two molded splices and two pull set-ups and baskets  
Three Phase - 48" handhole with three molded splices and one pull set-up and basket

## **E. Additional Charge for Underground Primary Lateral Exceeding Basic Length**

Single Phase – 1,000 feet 1#1/0A 25KV XPE, 1-2 inch pvc, 36 inch trench, pull labor  
Two Phase - 1000 feet 2#1/0A 25kv XPE, 2-2 inch PVC, 36 inch trench, pull labor  
Three Phase – 1,000 feet 3#1/0A 25KV XPE, 1-5 inch pvc, 36 inch trench, pull labor

## **F. Additional charge for Underground Primary Lateral to a Remote Point of Delivery**

Single Phase - 1000 feet 1#1/0A 25kv XPE, 1-2 inch PVC, 36 inch trench, pull labor  
Two Phase - 1000 feet 2#1/0A 25kv XPE, 2-2 inch PVC, 36 inch trench, pull labor  
Three Phase -1000 feet 3#1/0A 25kv XPE, 1-5 inch PVC, 36 inch trench, pull labor

## FPL

### Basis for Underground Commercial Distribution Differential

New Underground Commercial Development with Overhead Feeder Mains. The average differential costs for Underground Commercial Distribution stated in the FPL rules and Regulations were derived from cost estimates of underground commercial facilities and their equivalent overhead designs. These estimates employed the standard Company design and estimating practices and the system-costs, which were in use at the end of 2009. Design criteria include the following:

Primary Voltage	13,200/7,620 V
Phases, Secondary Voltage	Single Phase, 120/240 V Three phase, 120/240 V Three phase, 120/208 V Three phase, 277/480 V
Underground Design	All cable-in-conduit
Overhead Design	Wood Poles *, Extreme Windload (145 MPH)
	* Concrete pole used for 300 KVA OH TX Bank

**APPENDIX 4**  
**UCD**



OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -SINGLE PHASE RADIAL PAD MOUNTED TRANSFORMERINCLUDING RISER AND PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$3,208.37	\$2,886.84	(\$321.53)
MATERIAL	\$3,246.99	\$4,111.10	\$864.11
<b>TOTAL</b>	<b>\$6,455.36</b>	<b>\$6,997.94</b>	<b>\$542.58</b>

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****SINGLE PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$80.27	\$144.83	\$225.10
Primary	\$240.72	\$687.36	\$928.08
Secondary	\$240.72	\$572.81	\$813.53
Poles	\$597.21	\$887.73	\$1,484.94
Transformers	\$1,223.21	\$228.42	\$1,451.63
Sub-Total	\$2,382.13	\$2,521.15	\$4,903.28
Stores Handling(2)	\$169.37	\$0.00	\$169.37
SubTotal	\$2,551.50	\$2,521.15	\$5,072.65
Engineering(4)	\$695.49	\$687.22	\$1,382.71
TOTAL	\$3,246.99	\$3,208.37	\$6,455.36

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See appendix B, page 1, IIA, single phase for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****SINGLE PHASE RADIAL PAD MOUNTED TRANSFORMER****INCLUDING RISER AND PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,038.92	\$1,568.09	\$2,607.01
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$1,977.16	\$180.49	\$2,157.65
Trenching	\$0.00	\$519.91	\$519.91
Sub-Total	\$3,016.08	\$2,268.49	\$5,284.57
Stores Handling(2)	\$214.44	\$0.00	\$214.44
SubTotal	\$3,230.52	\$2,268.49	\$5,499.01
Engineering(4)	\$880.58	\$618.35	\$1,498.93
TOTAL	\$4,111.10	\$2,886.84	\$6,997.94

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, single phase, for design criteria and assumptions

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -TWO PHASE RADIAL PAD MOUNTED TRANSFORMERINCLUDING RISER AND PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$4,828.69	\$4,085.05	(\$743.64)
MATERIAL	\$5,981.71	\$7,765.02	\$1,783.31
<b>TOTAL</b>	<b>\$10,810.40</b>	<b>\$11,850.07</b>	<b>\$1,039.67</b>

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****TWO PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$173.79	\$307.96	\$481.75
Primary	\$556.82	\$1,364.94	\$1,921.76
Secondary	\$278.32	\$568.79	\$847.11
Poles	\$933.10	\$1,095.89	\$2,028.99
Transformers	\$2,446.41	\$456.83	\$2,903.24
Sub-Total	\$4,388.44	\$3,794.41	\$8,182.85
Stores Handling(2)	\$312.02	\$0.00	\$312.02
SubTotal	\$4,700.46	\$3,794.41	\$8,494.87
Engineering(4)	\$1,281.25	\$1,034.28	\$2,315.53
TOTAL	\$5,981.71	\$4,828.69	\$10,810.40

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIA, two phase, for design criteria and assumptions

UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANKTWO PHASE RADIAL PAD MOUNTED TRANSFORMERINCLUDING RISER AND PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,747.46	\$2,387.13	\$4,134.59
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$3,949.29	\$303.01	\$4,252.30
Trenching	\$0.00	\$519.91	\$519.91
Sub-Total	\$5,696.75	\$3,210.05	\$8,906.80
Stores Handling(2)	\$405.04	\$0.00	\$405.04
SubTotal	\$6,101.79	\$3,210.05	\$9,311.84
Engineering(4)	\$1,663.23	\$875.00	\$2,538.23
TOTAL	\$7,765.02	\$4,085.05	\$11,850.07

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, two phase for design criteria and assumptions

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK - 300 KVATHREE PHASE RADIAL PAD MOUNTED TRANSFORMERINCLUDING RISER AND PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$7,839.07	\$3,987.09	(\$3,851.98)
MATERIAL	\$14,377.09	\$15,899.88	\$1,522.79
TOTAL	\$22,216.16	\$19,886.97	(\$2,329.19)

**OVERHEAD VS. UNDERGROUND****SUMMARY SHEET****COST PER TRANSFORMER BANK - 150 KVA****THREE PHASE RADIAL PAD MOUNTED TRANSFORMER****INCLUDING RISER AND PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$6,448.74	\$4,011.26	(\$2,437.48)
MATERIAL	\$8,558.66	\$12,789.75	\$4,231.09
<b>TOTAL</b>	<b>\$15,007.40</b>	<b>\$16,801.01</b>	<b>\$1,793.61</b>



**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER AND SERVICE (300 KVA)****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$757.50	\$727.95	\$1,485.45
Primary	\$889.78	\$2,054.67	\$2,944.45
Secondary	\$296.53	\$570.79	\$867.32
Poles	\$2,198.88	\$2,121.32	\$4,320.20
Transformers	\$6,404.96	\$685.25	\$7,090.21
Sub-Total	\$10,547.65	\$6,159.98	\$16,707.63
Stores Handling(2)	\$749.94	\$0.00	\$749.94
SubTotal	\$11,297.59	\$6,159.98	\$17,457.57
Engineering(4)	\$3,079.50	\$1,679.09	\$4,758.59
TOTAL	\$14,377.09	\$7,839.07	\$22,216.16

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIA, three phase (300 kva) for design criteria and assumptions

**EXHIBIT VIII (A)**

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER AND SERVICE (150 KVA)****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$548.30	\$599.46	\$1,147.76
Primary	\$857.36	\$2,077.02	\$2,934.38
Secondary	\$285.72	\$577.00	\$862.72
Poles	\$1,316.03	\$1,128.72	\$2,444.75
Transformers	\$3,271.59	\$685.25	\$3,956.84
Sub-Total	\$6,279.00	\$5,067.45	\$11,346.45
Stores Handling(2)	\$446.44	\$0.00	\$446.44
SubTotal	\$6,725.44	\$5,067.45	\$11,792.89
Engineering(4)	\$1,833.22	\$1,381.29	\$3,214.51
TOTAL	\$8,558.66	\$6,448.74	\$15,007.40

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE RADIAL PAD MOUNTED TRANSFORMER 300 KVA****INCLUDING RISER AND PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$2,492.01	\$2,421.93	\$4,913.94
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$9,172.83	\$191.24	\$9,364.07
Trenching	\$0.00	\$519.91	\$519.91
Sub-Total	\$11,664.84	\$3,133.08	\$14,797.92
Stores Handling(2)	\$829.37	\$0.00	\$829.37
SubTotal	\$12,494.21	\$3,133.08	\$15,627.29
Engineering(4)	\$3,405.67	\$854.01	\$4,259.68
TOTAL	\$15,899.88	\$3,987.09	\$19,886.97

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, three phase (300 KVA) for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE RADIAL PAD MOUNTED TRANSFORMER 150 KVA****INCLUDING RISER AND PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$2,513.77	\$2,440.92	\$4,954.69
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$6,869.34	\$191.24	\$7,060.58
Trenching	\$0.00	\$519.91	\$519.91
Sub-Total	\$9,383.11	\$3,152.07	\$12,535.18
Stores Handling(2)	\$667.14	\$0.00	\$667.14
SubTotal	\$10,050.25	\$3,152.07	\$13,202.32
Engineering(4)	\$2,739.50	\$859.19	\$3,598.69
TOTAL	\$12,789.75	\$4,011.26	\$16,801.01

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -SINGLE PHASE LOOP PAD MOUNTED TRANSFORMERINCLUDING RISER AND PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$3,208.37	\$3,999.18	\$790.81
MATERIAL	\$3,246.99	\$4,467.89	\$1,220.90
<b>TOTAL</b>	<b>\$6,455.36</b>	<b>\$8,467.07</b>	<b>\$2,011.71</b>

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****SINGLE PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$80.27	\$144.83	\$225.10
Primary	\$240.72	\$687.36	\$928.08
Secondary	\$240.72	\$572.81	\$813.53
Poles	\$597.21	\$887.73	\$1,484.94
Transformers	\$1,223.21	\$228.42	\$1,451.63
Sub-Total	\$2,382.13	\$2,521.15	\$4,903.28
Stores Handling(2)	\$169.37	\$0.00	\$169.37
SubTotal	\$2,551.50	\$2,521.15	\$5,072.65
Engineering(4)	\$695.49	\$687.22	\$1,382.71
TOTAL	\$3,246.99	\$3,208.37	\$6,455.36

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

5 - See Appendix B, page 1, IIA, Single Phase, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****SINGLE PHASE LOOP PAD MOUNTED TRANSFORMER****INCLUDING RISER AND PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,296.62	\$1,922.27	\$3,218.89
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$1,981.22	\$180.49	\$2,161.71
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$3,277.84	\$3,142.58	\$6,420.42
Stores Handling(2)	\$233.05	\$0.00	\$233.05
SubTotal	\$3,510.89	\$3,142.58	\$6,653.47
Engineering(4)	\$957.00	\$856.60	\$1,813.60
TOTAL	\$4,467.89	\$3,999.18	\$8,467.07

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, single phase (loop), for design criteria and assumptions

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -TWO PHASE LOOP PAD MOUNTED TRANSFORMERINCLUDING RISER AND PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$4,828.69	\$5,687.86	\$859.17
MATERIAL	\$5,981.71	\$8,681.16	\$2,699.45
<b>TOTAL</b>	<b>\$10,810.40</b>	<b>\$14,369.02</b>	<b>\$3,558.62</b>



**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****TWO PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$173.79	\$307.96	\$481.75
Primary	\$556.82	\$1,364.94	\$1,921.76
Secondary	\$278.32	\$568.79	\$847.11
Poles	\$933.10	\$1,095.89	\$2,028.99
Transformers	\$2,446.41	\$456.83	\$2,903.24
Sub-Total	\$4,388.44	\$3,794.41	\$8,182.85
Stores Handling(2)	\$312.02	\$0.00	\$312.02
SubTotal	\$4,700.46	\$3,794.41	\$8,494.87
Engineering(4)	\$1,281.25	\$1,034.28	\$2,315.53
TOTAL	\$5,981.71	\$4,828.69	\$10,810.40

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIA, two phase, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****TWO PHASE LOOP PAD MOUNTED TRANSFORMER****INCLUDING RISER AND PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$2,424.39	\$3,139.70	\$5,564.09
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$3,944.48	\$290.03	\$4,234.51
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$6,368.87	\$4,469.55	\$10,838.42
Stores Handling(2)	\$452.83	\$0.00	\$452.83
SubTotal	\$6,821.70	\$4,469.55	\$11,291.25
Engineering(4)	\$1,859.46	\$1,218.31	\$3,077.77
TOTAL	\$8,681.16	\$5,687.86	\$14,369.02

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, two phase (loop)for design criteria and assumptions

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -THREE PHASE 150 KVA LOOP PAD MOUNTED TRANSFORMERINCLUDING RISER AND PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$6,448.74	\$5,297.17	(\$1,151.57)
MATERIAL	\$8,558.66	\$15,541.54	\$6,982.88
TOTAL	\$15,007.40	\$20,838.71	\$5,831.31

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -THREE PHASE 300 KVA LOOP PAD MOUNTED TRANSFORMERINCLUDING RISER AND PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$7,839.07	\$5,427.63	(\$2,411.44)
MATERIAL	\$14,377.09	\$18,099.96	\$3,722.87
<b>TOTAL</b>	<b>\$22,216.16</b>	<b>\$23,527.59</b>	<b>\$1,311.43</b>

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK**

**THREE PHASE PRIMARY LATERAL POLE LINE**

**INCLUDING TRANSFORMER AND SERVICE (150 KVA)**

**2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$548.30	\$599.46	\$1,147.76
Primary	\$857.36	\$2,077.02	\$2,934.38
Secondary	\$285.72	\$577.00	\$862.72
Poles	\$1,316.03	\$1,128.72	\$2,444.75
Transformers	\$3,271.59	\$685.25	\$3,956.84
Sub-Total	\$6,279.00	\$5,067.45	\$11,346.45
Stores Handling(2)	\$446.44	\$0.00	\$446.44
SubTotal	\$6,725.44	\$5,067.45	\$11,792.89
Engineering(4)	\$1,833.22	\$1,381.29	\$3,214.51
TOTAL	\$8,558.66	\$6,448.74	\$15,007.40

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER (300 TOTAL KVA) AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$757.50	\$727.95	\$1,485.45
Primary	\$889.78	\$2,054.67	\$2,944.45
Secondary	\$296.53	\$570.79	\$867.32
Poles	\$2,198.88	\$2,121.32	\$4,320.20
Transformers	\$6,404.96	\$685.25	\$7,090.21
Sub-Total	\$10,547.65	\$6,159.98	\$16,707.63
Stores Handling(2)	\$749.94	\$0.00	\$749.94
SubTotal	\$11,297.59	\$6,159.98	\$17,457.57
Engineering(4)	\$3,079.50	\$1,679.09	\$4,758.59
TOTAL	\$14,377.09	\$7,839.07	\$22,216.16

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIA, 3 phase (300 KVA) for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE 150 KVA LOOP PAD MOUNTED TRANSFORMER****INCLUDING RISER AND PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$3,542.49	\$2,931.48	\$6,473.97
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$7,859.45	\$191.24	\$8,050.69
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$11,401.94	\$4,162.54	\$15,564.48
Stores Handling(2)	\$810.68	\$0.00	\$810.68
SubTotal	\$12,212.62	\$4,162.54	\$16,375.16
Engineering(4)	\$3,328.92	\$1,134.63	\$4,463.55
TOTAL	\$15,541.54	\$5,297.17	\$20,838.71

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, three phase (300kva-loop) for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE 300 KVA LOOP PAD MOUNTED TRANSFORMER****INCLUDING RISER AND PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$3,542.49	\$3,034.00	\$6,576.49
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$9,736.42	\$191.24	\$9,927.66
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$13,278.91	\$4,265.06	\$17,543.97
Stores Handling(2)	\$944.13	\$0.00	\$944.13
SubTotal	\$14,223.04	\$4,265.06	\$18,488.10
Engineering(4)	\$3,876.92	\$1,162.57	\$5,039.49
TOTAL	\$18,099.96	\$5,427.63	\$23,527.59

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, three phase (300kva-loop) for design criteria and assumptions



OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -SINGLE PHASE LOOP PAD MOUNTED TRANSFORMERFROM EXISTING UNDERGROUND TERMINATION POINTINCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$3,208.37	\$3,139.56	(\$68.81)
MATERIAL	\$3,246.99	\$4,224.20	\$977.21
TOTAL	\$6,455.36	\$7,363.76	\$908.40

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -SINGLE PHASE RADIAL PAD MOUNTED TRANSFORMERFROM EXISTING UNDERGROUND TERMINATION POINTINCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$3,208.37	\$2,257.52	(\$950.85)
MATERIAL	\$3,246.99	\$3,769.61	\$522.62
<b>TOTAL</b>	<b>\$6,455.36</b>	<b>\$6,027.13</b>	<b>(\$428.23)</b>

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****SINGLE PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$80.27	\$144.83	\$225.10
Primary	\$240.72	\$687.36	\$928.08
Secondary	\$240.72	\$572.81	\$813.53
Poles	\$597.21	\$887.73	\$1,484.94
Transformers	\$1,223.21	\$228.42	\$1,451.63
Sub-Total	\$2,382.13	\$2,521.15	\$4,903.28
Stores Handling(2)	\$169.37	\$0.00	\$169.37
SubTotal	\$2,551.50	\$2,521.15	\$5,072.65
Engineering(4)	\$695.49	\$687.22	\$1,382.71
TOTAL	\$3,246.99	\$3,208.37	\$6,455.36

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIA single phase, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****SINGLE PHASE LOOP PAD MOUNTED TRANSFORMER****FROM EXISTING UNDERGROUND TERMINATION POINT****INCLUDING PRIMARY LATERAL AND TRENCH WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,117.84	\$1,246.77	\$2,364.61
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$1,981.22	\$180.49	\$2,161.71
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$3,099.06	\$2,467.08	\$5,566.14
Stores Handling(2)	\$220.34	\$0.00	\$220.34
SubTotal	\$3,319.40	\$2,467.08	\$5,786.48
Engineering(4)	\$904.80	\$672.48	\$1,577.28
TOTAL	\$4,224.20	\$3,139.56	\$7,363.76

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, single phase (loop), for design criteria and assumptions. Riser length and riser size are not applicable.

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****SINGLE PHASE RADIAL PAD MOUNTED TRANSFORMER****FROM EXISTING UNDERGROUND TERMINATION POINT****INCLUDING PRIMARY LATERAL AND TRENCH WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$783.36	\$553.66	\$1,337.02
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$1,982.19	\$180.49	\$2,162.68
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$2,765.55	\$1,773.97	\$4,539.52
Stores Handling(2)	\$196.63	\$0.00	\$196.63
SubTotal	\$2,962.18	\$1,773.97	\$4,736.15
Engineering(4)	\$807.43	\$483.55	\$1,290.98
TOTAL	\$3,769.61	\$2,257.52	\$6,027.13

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, single phase (radial), for design criteria and assumptions. Riser length and riser size are not applicable.

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -TWO PHASE LOOP PAD MOUNTED TRANSFORMERFROM EXISTING UNDERGROUND TERMINATION POINTINCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$4,828.69	\$4,533.02	(\$295.67)
MATERIAL	\$5,981.71	\$8,077.13	\$2,095.42
<b>TOTAL</b>	<b>\$10,810.40</b>	<b>\$12,610.15</b>	<b>\$1,799.75</b>

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -TWO PHASE RADIAL PAD MOUNTED TRANSFORMERFROM EXISTING UNDERGROUND TERMINATION POINTINCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$4,828.69	\$3,374.07	(\$1,454.62)
MATERIAL	\$5,981.71	\$7,132.82	\$1,151.11
<b>TOTAL</b>	<b>\$10,810.40</b>	<b>\$10,506.89</b>	<b>(\$303.51)</b>

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****TWO PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$173.79	\$307.96	\$481.75
Primary	\$556.82	\$1,364.94	\$1,921.76
Secondary	\$278.32	\$568.79	\$847.11
Poles	\$933.10	\$1,095.89	\$2,028.99
Transformers	\$2,446.41	\$456.83	\$2,903.24
Sub-Total	\$4,388.44	\$3,794.41	\$8,182.85
Stores Handling(2)	\$312.02	\$0.00	\$312.02
SubTotal	\$4,700.46	\$3,794.41	\$8,494.87
Engineering(4)	\$1,281.25	\$1,034.28	\$2,315.53
TOTAL	\$5,981.71	\$4,828.69	\$10,810.40

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIA, two phase, for design criteria and assumptions



**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****TWO PHASE LOOP PAD MOUNTED TRANSFORMER****FROM EXISTING UNDERGROUND TERMINATION POINT****INCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,980.04	\$2,236.00	\$4,216.04
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$3,945.69	\$286.25	\$4,231.94
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$5,925.73	\$3,562.07	\$9,487.80
Stores Handling(2)	\$421.32	\$0.00	\$421.32
SubTotal	\$6,347.05	\$3,562.07	\$9,909.12
Engineering(4)	\$1,730.08	\$970.95	\$2,701.03
TOTAL	\$8,077.13	\$4,533.02	\$12,610.15

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: Appendix B, page 2, IIIA, two phase (loop), for design criteria and assumptions. Riser length and riser size are not applicable.

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****TWO PHASE RADIAL PAD MOUNTED TRANSFORMER****FROM EXISTING UNDERGROUND TERMINATION POINT****INCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,275.42	\$1,301.84	\$2,577.26
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$3,957.53	\$309.70	\$4,267.23
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$5,232.95	\$2,651.36	\$7,884.31
Stores Handling(2)	\$372.06	\$0.00	\$372.06
SubTotal	\$5,605.01	\$2,651.36	\$8,256.37
Engineering(4)	\$1,527.81	\$722.71	\$2,250.52
TOTAL	\$7,132.82	\$3,374.07	\$10,506.89

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: Appendix B, page 2, IIIA, two phase (radial), for design criteria and assumptions. Riser length and riser size are not applicable.

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -THREE PHASE 150 KVA LOOP PAD MOUNTED TRANSFORMERFROM EXISTING UNDERGROUND TERMINATION POINTINCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$6,448.74	\$3,937.85	(\$2,510.89)
MATERIAL	\$8,558.66	\$14,825.10	\$6,266.44
<b>TOTAL</b>	<b>\$15,007.40</b>	<b>\$18,762.95</b>	<b>\$3,755.55</b>

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -THREE PHASE 300 KVA LOOP PAD MOUNTED TRANSFORMERFROM EXISTING UNDERGROUND TERMINATION POINTINCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$7,839.07	\$3,937.85	(\$3,901.22)
MATERIAL	\$14,377.09	\$17,383.52	\$3,006.43
TOTAL	\$22,216.16	\$21,321.37	(\$894.79)

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -THREE PHASE 150 KVA RADIAL PAD MOUNTED TRANSFORMERFROM EXISTING UNDERGROUND TERMINATION POINTINCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$6,448.74	\$2,541.74	(\$3,907.00)
MATERIAL	\$8,558.66	\$11,955.97	\$3,397.31
<b>TOTAL</b>	<b>\$15,007.40</b>	<b>\$14,497.71</b>	<b>(\$509.69)</b>

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER TRANSFORMER BANK -THREE PHASE 300 KVA RADIAL PAD MOUNTED TRANSFORMERFROM EXISTING UNDERGROUND TERMINATION POINTINCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$7,839.07	\$2,541.74	(\$5,297.33)
MATERIAL	\$14,377.09	\$15,122.23	\$745.14
<b>TOTAL</b>	<b>\$22,216.16</b>	<b>\$17,663.97</b>	<b>(\$4,552.19)</b>

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER (150 TOTAL KVA) AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$548.30	\$599.46	\$1,147.76
Primary	\$857.36	\$2,077.02	\$2,934.38
Secondary	\$285.72	\$577.00	\$862.72
Poles	\$1,316.03	\$1,128.72	\$2,444.75
Transformers	\$3,271.59	\$685.25	\$3,956.84
Sub-Total	\$6,279.00	\$5,067.45	\$11,346.45
Stores Handling(2)	\$446.44	\$0.00	\$446.44
SubTotal	\$6,725.44	\$5,067.45	\$11,792.89
Engineering(4)	\$1,833.22	\$1,381.29	\$3,214.51
TOTAL	\$8,558.66	\$6,448.74	\$15,007.40

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIA, three phase (150 KVA), for design criteria and assumptions

**OVERHEAD MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE PRIMARY LATERAL POLE LINE****INCLUDING TRANSFORMER (300 TOTAL KVA) AND SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$757.50	\$727.95	\$1,485.45
Primary	\$889.78	\$2,054.67	\$2,944.45
Secondary	\$296.53	\$570.79	\$867.32
Poles	\$2,198.88	\$2,121.32	\$4,320.20
Transformers	\$6,404.96	\$685.25	\$7,090.21
Sub-Total	\$10,547.65	\$6,159.98	\$16,707.63
Stores Handling(2)	\$749.94	\$0.00	\$749.94
SubTotal	\$11,297.59	\$6,159.98	\$17,457.57
Engineering(4)	\$3,079.50	\$1,679.09	\$4,758.59
TOTAL	\$14,377.09	\$7,839.07	\$22,216.16

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIA, three phase (300 KVA), for design criteria and assumptions



**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE LOOP PAD MOUNTED TRANSFORMER (150 KVA)****FROM EXISTING UNDERGROUND TERMINATION POINT****INCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$3,016.88	\$1,863.32	\$4,880.20
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$7,859.45	\$191.24	\$8,050.69
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$10,876.33	\$3,094.38	\$13,970.71
Stores Handling(2)	\$773.31	\$0.00	\$773.31
SubTotal	\$11,649.64	\$3,094.38	\$14,744.02
Engineering(4)	\$3,175.46	\$843.47	\$4,018.93
TOTAL	\$14,825.10	\$3,937.85	\$18,762.95

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, three phase (150kva-loop) for design criteria and assumptions. Riser length and riser size are not applicable.

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE LOOP PAD MOUNTED TRANSFORMER (300 KVA)****FROM EXISTING UNDERGROUND TERMINATION POINT****INCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$3,016.88	\$1,863.32	\$4,880.20
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$9,736.42	\$191.24	\$9,927.66
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$12,753.30	\$3,094.38	\$15,847.68
Stores Handling(2)	\$906.76	\$0.00	\$906.76
SubTotal	\$13,660.06	\$3,094.38	\$16,754.44
Engineering(4)	\$3,723.46	\$843.47	\$4,566.93
TOTAL	\$17,383.52	\$3,937.85	\$21,321.37

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, three phase (300kva-loop) for design criteria and assumptions. Riser length and riser size are not applicable.

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE RADIAL PAD MOUNTED TRANSFORMER (150 KVA)****FROM EXISTING UNDERGROUND TERMINATION POINT****INCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,893.35	\$766.25	\$2,659.60
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$6,878.06	\$191.24	\$7,069.30
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$8,771.41	\$1,997.31	\$10,768.72
Stores Handling(2)	\$623.65	\$0.00	\$623.65
SubTotal	\$9,395.06	\$1,997.31	\$11,392.37
Engineering(4)	\$2,560.91	\$544.43	\$3,105.34
TOTAL	\$11,955.97	\$2,541.74	\$14,497.71

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, three phase (150kva-radial) for design criteria and assumptions. Riser length and riser size are not applicable.

**UNDERGROUND MATERIAL AND LABOR COST PER TRANSFORMER BANK****THREE PHASE RADIAL PAD MOUNTED TRANSFORMER (300 KVA)****FROM EXISTING UNDERGROUND TERMINATION POINT****INCLUDING PRIMARY LATERAL TRENCH WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,893.35	\$766.25	\$2,659.60
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$9,200.97	\$191.24	\$9,392.21
Trenching	\$0.00	\$1,039.82	\$1,039.82
Sub-Total	\$11,094.32	\$1,997.31	\$13,091.63
Stores Handling(2)	\$788.81	\$0.00	\$788.81
SubTotal	\$11,883.13	\$1,997.31	\$13,880.44
Engineering(4)	\$3,239.10	\$544.43	\$3,783.53
TOTAL	\$15,122.23	\$2,541.74	\$17,663.97

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIIA, three phase (300kva-radial) for design criteria and assumptions. Riser length and riser size are not applicable.

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER RISER -SMALL SINGLE PHASE RISER2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$184.31	\$606.32	\$422.01
MATERIAL	\$78.79	\$261.15	\$182.36
<b>TOTAL</b>	<b>\$263.10</b>	<b>\$867.47</b>	<b>\$604.37</b>

**OVERHEAD MATERIAL AND LABOR COST PER SERVICE****SINGLE PHASE SMALL SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$57.80	\$144.83	\$202.63
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$0.00	\$0.00	\$0.00
Poles	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Sub-Total	\$57.80	\$144.83	\$202.63
Stores Handling(2)	\$4.11	\$0.00	\$4.11
SubTotal	\$61.91	\$144.83	\$206.74
Engineering(4)	\$16.88	\$39.48	\$56.36
TOTAL	\$78.79	\$184.31	\$263.10

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, B, small single phase, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER RISER****SMALL SINGLE PHASE RISER****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$191.59	\$476.45	\$668.04
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$191.59	\$476.45	\$668.04
Stores Handling(2)	\$13.62	\$0.00	\$13.62
SubTotal	\$205.21	\$476.45	\$681.66
Engineering(4)	\$55.94	\$129.87	\$185.81
TOTAL	\$261.15	\$606.32	\$867.47

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIB, small single phase, for design criteria and assumptions

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER RISER -LARGE SINGLE PHASE RISER2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$391.90	\$821.88	\$429.98
MATERIAL	\$286.38	\$772.90	\$486.52
<b>TOTAL</b>	<b>\$678.28</b>	<b>\$1,594.78</b>	<b>\$916.50</b>



**OVERHEAD MATERIAL AND LABOR COST PER SERVICE****SINGLE PHASE LARGE SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$297.31	\$307.96	\$605.27
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$0.00	\$0.00	\$0.00
Poles	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Sub-Total	\$297.31	\$307.96	\$605.27
Stores Handling(2)	\$21.14	\$0.00	\$21.14
SubTotal	\$318.45	\$307.96	\$626.41
Engineering(4)	\$86.80	\$83.94	\$170.74
TOTAL	\$405.25	\$391.90	\$797.15

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIB, large single phase, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER RISER****LARGE SINGLE PHASE RISER****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$752.50	\$645.84	\$1,398.34
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$752.50	\$645.84	\$1,398.34
Stores Handling(2)	\$53.50	\$0.00	\$53.50
SubTotal	\$806.00	\$645.84	\$1,451.84
Engineering(4)	\$219.70	\$176.04	\$395.74
TOTAL	\$1,025.70	\$821.88	\$1,847.58

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIB, large single phase, for design criteria and assumptions

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER RISER -SMALL THREE PHASE RISER2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$231.71	\$726.08	\$494.37
MATERIAL	\$103.45	\$435.62	\$332.17
<b>TOTAL</b>	<b>\$335.16</b>	<b>\$1,161.70</b>	<b>\$826.54</b>

**OVERHEAD MATERIAL AND LABOR COST PER SERVICE****THREE PHASE SMALL SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$75.89	\$182.08	\$257.97
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$0.00	\$0.00	\$0.00
Poles	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Sub-Total	\$75.89	\$182.08	\$257.97
Stores Handling(2)	\$5.40	\$0.00	\$5.40
SubTotal	\$81.29	\$182.08	\$263.37
Engineering(4)	\$22.16	\$49.63	\$71.79
TOTAL	\$103.45	\$231.71	\$335.16

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIB, small three phase, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER RISER****SMALL THREE PHASE RISER****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$319.59	\$570.56	\$890.15
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$319.59	\$570.56	\$890.15
Stores Handling(2)	\$22.72	\$0.00	\$22.72
SubTotal	\$342.31	\$570.56	\$912.87
Engineering(4)	\$93.31	\$155.52	\$248.83
TOTAL	\$435.62	\$726.08	\$1,161.70

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIB, small three phase, for design criteria and assumptions

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER RISER -LARGE THREE PHASE RISER2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$391.90	\$1,038.32	\$646.42
MATERIAL	\$405.25	\$1,299.66	\$894.41
<b>TOTAL</b>	<b>\$797.15</b>	<b>\$2,337.98</b>	<b>\$1,540.83</b>

**OVERHEAD MATERIAL AND LABOR COST PER SERVICE****THREE PHASE LARGE SERVICE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$297.31	\$307.96	\$605.27
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$0.00	\$0.00	\$0.00
Poles	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Sub-Total	\$297.31	\$307.96	\$605.27
Stores Handling(2)	\$21.14	\$0.00	\$21.14
SubTotal	\$318.45	\$307.96	\$626.41
Engineering(4)	\$86.80	\$83.94	\$170.74
TOTAL	\$405.25	\$391.90	\$797.15

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 1, IIB, large three phase, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER RISER****LARGE THREE PHASE RISER****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$953.49	\$815.92	\$1,769.41
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$953.49	\$815.92	\$1,769.41
Stores Handling(2)	\$67.79	\$0.00	\$67.79
SubTotal	\$1,021.28	\$815.92	\$1,837.20
Engineering(4)	\$278.38	\$222.40	\$500.78
TOTAL	\$1,299.66	\$1,038.32	\$2,337.98

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIB, large three phase, for design criteria and assumptions



**UNDERGROUND MATERIAL AND LABOR COST PER RISER****SMALL HANDHOLE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$98.82	\$60.96	\$159.78
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$98.82	\$60.96	\$159.78
Stores Handling(2)	\$7.03	\$0.00	\$7.03
SubTotal	\$105.85	\$60.96	\$166.81
Engineering(4)	\$28.85	\$16.62	\$45.47
TOTAL	\$134.70	\$77.58	\$212.28

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIC, small handhole, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER RISER****INTERMEDIATE HANDHOLE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$126.12	\$60.96	\$187.08
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$126.12	\$60.96	\$187.08
Stores Handling(2)	\$8.97	\$0.00	\$8.97
SubTotal	\$135.09	\$60.96	\$196.05
Engineering(4)	\$36.82	\$16.62	\$53.44
TOTAL	\$171.91	\$77.58	\$249.49

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIC, intermediate handhole for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER RISER****LARGE HANDHOLE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$419.92	\$231.87	\$651.79
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$419.92	\$231.87	\$651.79
Stores Handling(2)	\$29.86	\$0.00	\$29.86
SubTotal	\$449.78	\$231.87	\$681.65
Engineering(4)	\$122.60	\$63.20	\$185.80
TOTAL	\$572.38	\$295.07	\$867.45

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.253% of All Material and Labor.

Note: See Appendix B, page 3, IIIC, large handhole for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER RISER****PADMOUNTED SECONDARY JUNCTION BOX****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$1,890.52	\$393.32	\$2,283.84
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$1,890.52	\$393.32	\$2,283.84
Stores Handling(2)	\$134.42	\$0.00	\$134.42
SubTotal	\$2,024.94	\$393.32	\$2,418.26
Engineering(4)	\$551.96	\$107.21	\$659.17
TOTAL	\$2,576.90	\$500.53	\$3,077.43

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Apendix B, page 3, IIC, secondary junction box, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER CABINET****PADMOUNTED SECONDARY JUNCTION CABINET****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$0.00	\$0.00	\$0.00
Secondary	\$5,486.07	\$375.91	\$5,861.98
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$5,486.07	\$375.91	\$5,861.98
Stores Handling(2)	\$390.06	\$0.00	\$390.06
SubTotal	\$5,876.13	\$375.91	\$6,252.04
Engineering(4)	\$1,601.72	\$102.47	\$1,704.19
TOTAL	\$7,477.85	\$478.38	\$7,956.23

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIC, secondary junction cabinet, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER CABINET**  
**PADMOUNTED SECONDARY JUNCTION CABINET**  
**SECONDARY CONDUCTORS AND SERVICE TAPS**

**2010**

ITEM	MATERIAL(1)	LABOR(2)	TOTAL
350 MCM Al Wire (per set) \$	1,011.00	\$0.00	\$1,011.00
500 MCM Cu Wire (per set) \$	1,773.40	\$0.00	\$1,773.40
750 MCM Al Wire (per set) \$	1,101.80	\$0.00	\$1,101.80
750 MCM Cu Wire (per set) \$	2,041.60	\$0.00	\$2,041.60
Pull Setup (one per cab)	\$0.00	\$ 162.74	\$162.74
Pulling Cable (per set)	\$0.00	\$ 70.04	\$70.04
Tap Wires in Transformer and Cabinet (per set)	\$0.00	\$ 158.16	\$158.16
Usage Statistics			
350 MCM Al Wire	0%		
500 MCM CU Wire	25%		
750 MCM Al Wire	50%		
750 MCM Cu Wire	25%		
Weighted Cost of Wire	\$1,504.65		
Number of Sets			
1 Set	15%		
2 Sets	30%		
3 Sets	30%		
4 Sets	25%		
Weighted Pulling Cost	\$0.00	\$348.35	
Weighted Wire Subtotal	\$3,987.32	\$419.12	
Total Cost of Secondary	\$4,754.79		

The first 12 sets of service conductors will be tapped, since they are included in a standard transformer installation (750 KVA or greater). Any sets greater than 12 will incur a differential cost per set: \$79.08

1 - Includes Sales Tax, 7.11 % Stores Loading of All Material, and 27.258% Engineering Overhead of all Material.

2 - Includes Payroll, Taxes, Insurance, P&W, & Transportation, and 27.258% Engineering Overhead of all Labor.

3 - 8 foot spacing between cabinet and transformer needs 20' of conductor per set.

4 - Usage statistics based on all new installations during 2003 & 2004.

**EXHIBIT XLII (C)**

**UNDERGROUND MATERIAL AND LABOR COST PER HANDHOLE****SINGLE PHASE PRIMARY 48" SPLICE BOX****WITH SPLICES AND PULL LABOR****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$490.72	\$662.78	\$1,153.50
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$490.72	\$662.78	\$1,153.50
Stores Handling(2)	\$34.89	\$0.00	\$34.89
SubTotal	\$525.61	\$662.78	\$1,188.39
Engineering(4)	\$143.27	\$180.66	\$323.93
TOTAL	\$668.88	\$843.44	\$1,512.32

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIID, single phase primary 48" splice box, for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER HANDHOLE****TWO PHASE PRIMARY 48" SPLICE BOX****WITH SPLICES AND PULL LABOR****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$561.47	\$1,075.77	\$1,637.24
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$561.47	\$1,075.77	\$1,637.24
Stores Handling(2)	\$39.92	\$0.00	\$39.92
SubTotal	\$601.39	\$1,075.77	\$1,677.16
Engineering(4)	\$163.93	\$293.23	\$457.16
TOTAL	\$765.32	\$1,369.00	\$2,134.32

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIID, two phase primary 48" splice box for design criteria and assumptions

**EXHIBIT XLIV**



**UNDERGROUND MATERIAL AND LABOR COST PER HANDHOLE****THREE PHASE PRIMARY 48" SPLICE BOX****WITH SPLICES AND PULL LABOR****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$625.95	\$1,147.65	\$1,773.60
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$0.00	\$0.00
Sub-Total	\$625.95	\$1,147.65	\$1,773.60
Stores Handling(2)	\$44.51	\$0.00	\$44.51
SubTotal	\$670.46	\$1,147.65	\$1,818.11
Engineering(4)	\$182.75	\$312.83	\$495.58
TOTAL	\$853.21	\$1,460.48	\$2,313.69

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIID, three phase 48" primary splice box for design criteria and assumptions

**EXHIBIT XLV**

**OVERHEAD VS. UNDERGROUND****SUMMARY SHEET****COST PER FOOT -****SINGLE PHASE PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$4,563.93	\$5,750.80	\$1,186.87
MATERIAL	\$2,911.47	\$2,553.51	(\$357.96)
<b>TOTAL</b>	<b>\$7,475.40</b>	<b>\$8,304.31</b>	<b>\$828.91</b>
<b>PER FOOT TOTAL</b>	<b>\$7.48</b>	<b>\$8.30</b>	<b>\$0.82</b>

**OVERHEAD MATERIAL AND LABOR COST PER FOOT****SINGLE PHASE PRIMARY LATERAL POLE LINE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$361.20	\$1,118.71	\$1,479.91
Secondary	\$361.20	\$1,118.71	\$1,479.91
Poles	\$1,413.58	\$1,348.94	\$2,762.52
Transformers	\$0.00	\$0.00	\$0.00
Sub-Total	\$2,135.98	\$3,586.36	\$5,722.34
Stores Handling(2)	\$151.87	\$0.00	\$151.87
SubTotal	\$2,287.85	\$3,586.36	\$5,874.21
Engineering(4)	\$623.62	\$977.57	\$1,601.19
TOTAL	\$2,911.47	\$4,563.93	\$7,475.40

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIE, single phase for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER FOOT****SINGLE PHASE PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,873.36	\$1,052.96	\$2,926.32
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$3,466.05	\$3,466.05
Sub-Total	\$1,873.36	\$4,519.01	\$6,392.37
Stores Handling(2)	\$133.20	\$0.00	\$133.20
SubTotal	\$2,006.56	\$4,519.01	\$6,525.57
Engineering(4)	\$546.95	\$1,231.79	\$1,778.74
TOTAL	\$2,553.51	\$5,750.80	\$8,304.31
PER FOOT TOTAL	\$2.55	\$5.75	\$8.30

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIE, single phase for design criteria and assumptions

**OVERHEAD VS. UNDERGROUND****SUMMARY SHEET****COST PER FOOT -****TWO PHASE PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$5,829.08	\$7,058.84	\$1,229.76
MATERIAL	\$3,494.50	\$5,147.43	\$1,652.93
<b>TOTAL</b>	<b>\$9,323.58</b>	<b>\$12,206.27</b>	<b>\$2,882.69</b>
<b>PER FOOT TOTAL</b>	<b>\$9.32</b>	<b>\$12.21</b>	<b>\$2.89</b>

**OVERHEAD MATERIAL AND LABOR COST PER FOOT****TWO PHASE PRIMARY LATERAL POLE LINE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$729.12	\$2,154.39	\$2,883.51
Secondary	\$364.56	\$1,077.19	\$1,441.75
Poles	\$1,470.04	\$1,348.94	\$2,818.98
Transformers	\$0.00	\$0.00	\$0.00
Sub-Total	\$2,563.72	\$4,580.52	\$7,144.24
Stores Handling(2)	\$182.28	\$0.00	\$182.28
SubTotal	\$2,746.00	\$4,580.52	\$7,326.52
Engineering(4)	\$748.50	\$1,248.56	\$1,997.06
TOTAL	\$3,494.50	\$5,829.08	\$9,323.58

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIE, two phase for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER FOOT****TWO PHASE PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$3,776.38	\$2,080.82	\$5,857.20
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$3,466.05	\$3,466.05
Sub-Total	\$3,776.38	\$5,546.87	\$9,323.25
Stores Handling(2)	\$268.50	\$0.00	\$268.50
SubTotal	\$4,044.88	\$5,546.87	\$9,591.75
Engineering(4)	\$1,102.55	\$1,511.97	\$2,614.52
TOTAL	\$5,147.43	\$7,058.84	\$12,206.27
PER FOOT TOTAL	\$5.15	\$7.06	\$12.21

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&amp;W, &amp; Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIE, two phase for design criteria and assumptions

OVERHEAD VS. UNDERGROUNDSUMMARY SHEETCOST PER FOOT -THREE PHASE PRIMARY LATERAL TRENCHWITH CABLE-IN-CONDUIT2010

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
LABOR	\$6,801.14	\$6,086.94	(\$714.20)
MATERIAL	\$4,188.82	\$7,462.09	\$3,273.27
<b>TOTAL</b>	<b>\$10,989.96</b>	<b>\$13,549.03</b>	<b>\$2,559.07</b>
<b>PER FOOT TOTAL</b>	<b>\$10.99</b>	<b>\$13.55</b>	<b>\$2.56</b>



**OVERHEAD MATERIAL AND LABOR COST PER FOOT****THREE PHASE PRIMARY LATERAL POLE LINE****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,056.81	\$2,999.88	\$4,056.69
Secondary	\$352.26	\$999.96	\$1,352.22
Poles	\$1,664.03	\$1,344.53	\$3,008.56
Transformers	\$0.00	\$0.00	\$0.00
Sub-Total	\$3,073.10	\$5,344.37	\$8,417.47
Stores Handling(2)	\$218.50	\$0.00	\$218.50
SubTotal	\$3,291.60	\$5,344.37	\$8,635.97
Engineering(4)	\$897.22	\$1,456.77	\$2,353.99
TOTAL	\$4,188.82	\$6,801.14	\$10,989.96

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 2, IIE, three phase for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER FOOT****THREE PHASE PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$5,474.51	\$1,317.10	\$6,791.61
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$3,466.05	\$3,466.05
Sub-Total	\$5,474.51	\$4,783.15	\$10,257.66
Stores Handling(2)	\$389.24	\$0.00	\$389.24
SubTotal	\$5,863.75	\$4,783.15	\$10,646.90
Engineering(4)	\$1,598.34	\$1,303.79	\$2,902.13
TOTAL	\$7,462.09	\$6,086.94	\$13,549.03
PER FOOT TOTAL	\$7.46	\$6.09	\$13.55

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIE, three phase for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER FOOT****SINGLE PHASE PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$1,873.36	\$1,052.96	\$2,926.32
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$3,466.05	\$3,466.05
Sub-Total	\$1,873.36	\$4,519.01	\$6,392.37
Stores Handling(2)	\$133.20	\$0.00	\$133.20
SubTotal	\$2,006.56	\$4,519.01	\$6,525.57
Engineering(4)	\$546.95	\$1,231.79	\$1,778.74
TOTAL	\$2,553.51	\$5,750.80	\$8,304.31
PER FOOT TOTAL	\$2.55	\$5.75	\$8.30

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIF, single phase for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER FOOT****TWO PHASE PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$3,776.38	\$2,080.82	\$5,857.20
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$3,466.05	\$3,466.05
Sub-Total	\$3,776.38	\$5,546.87	\$9,323.25
Stores Handling(2)	\$268.50	\$0.00	\$268.50
SubTotal	\$4,044.88	\$5,546.87	\$9,591.75
Engineering(4)	\$1,102.55	\$1,511.97	\$2,614.52
TOTAL	\$5,147.43	\$7,058.84	\$12,206.27
PER FOOT TOTAL	\$5.15	\$7.06	\$12.21

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&amp;W, &amp; Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIF, two phase for design criteria and assumptions

**UNDERGROUND MATERIAL AND LABOR COST PER FOOT****THREE PHASE PRIMARY LATERAL TRENCH****WITH CABLE-IN-CONDUIT****2010**

ITEM	MATERIAL(1)	LABOR(3)	TOTAL
Service	\$0.00	\$0.00	\$0.00
Primary	\$5,474.51	\$1,317.10	\$6,791.61
Secondary	\$0.00	\$0.00	\$0.00
Transformers	\$0.00	\$0.00	\$0.00
Trenching	\$0.00	\$3,466.05	\$3,466.05
Sub-Total	\$5,474.51	\$4,783.15	\$10,257.66
Stores Handling(2)	\$389.24	\$0.00	\$389.24
SubTotal	\$5,863.75	\$4,783.15	\$10,646.90
Engineering(4)	\$1,598.34	\$1,303.79	\$2,902.13
TOTAL	\$7,462.09	\$6,086.94	\$13,549.03
PER FOOT TOTAL	\$7.46	\$6.09	\$13.55

1 - Includes Sales Tax.

2 - 7.11 % of All Material.

3 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

4 - 27.258% of All Material and Labor.

Note: See Appendix B, page 3, IIIF, three phase for design criteria and assumptions

2010 UCD TARIFFAVERAGE UCD UNDERGROUND FEEDER COST

<u>Underground</u>	<u>Overhead</u>	<u>Difference</u>	
\$/Ft..... \$33.37	\$/Ft..... \$21.19	\$/Ft.....	\$12.19
	Round To: \$/Ft.....		<b>\$12.19</b>

13 kV UG Switch Cabinet (9/3 cabinet w/ all hardware & cable) = .....	\$21,675.27
13 kV Salt Spray UG Switch Cabinet (9/3 cabinet w/ all hardware & cable) = ...	\$27,959.26
23 kV UG Switch Cabinet (9/3 cabinet w/ all hardware & cable) = .....	\$27,921.88
23 kV Salt Spray UG Switch Cabinet (9/3 cabinet w/ all hardware & cable) = ...	\$34,956.91
13 kV UG Switch Cabinet (6/6 cabinet w/ all hardware & cable) = .....	\$20,596.43
13 kV Salt Spray UG Switch Cabinet (6/6 cabinet w/ all hardware & cable) = ...	\$26,696.42
23 kV UG Switch Cabinet (6/6 cabinet w/ all hardware & cable) = .....	\$26,954.83
23 kV Salt Spray UG Switch Cabinet (6/6 cabinet w/ all hardware & cable) = ...	\$32,847.89

Based on data from Inventory Services on switch cabinet utilization (new construction only):

5	13 kV 9/3 cabinets		
1	13 kV SS 9/3 cabinets		
19	23 kV 9/3 cabinets		
0	23 kV SS 9/3 cabinets		
17	13 kV 6/6 cabinets		
2	13 kV SS 6/6 cabinets		
48	23 kV 6/6 cabinets		
0	23 kV SS 6/6 cabinets		
	Weighted Average:		\$25,697.99
		\$/Switch Cabinet	<b>\$25,697.99</b>

**NOTE:** All estimates based on three phase requirements.  
See Exhibit LIX for details.

Note: See Appendix B , page 4, for design criteria and assumptions.

## 2010 UCD TARIFF

## FEEDER COST

Feeder Length = .....	25,428
UG Feeder Cost* (excluding UG switches) = .....	\$920,576.97
26 UG Lateral Risers not required if UG Feeder is used	
Cost of each Lateral Riser = .....	\$2,769.53
26 Lateral Risers X \$2,769.53 = .....	(\$72,007.78)
Net UG Feeder Cost = .....	\$848,569.19
UG Feeder per foot cost = .....	\$33.37
OH Feeder Cost (excluding OH switches & hardware) = .....	\$538,692.99
OH Feeder per foot cost = .....	\$21.19
Feeder Differential Cost (per foot) = .....	\$12.19
13 kV UG Switch Cabinet (9/3 cabinet w/ all hardware & cable) = .....	\$26,959.32
13 kV Salt Spray UG Switch Cabinet (9/3 cabinet w/ all hardware & cable) = ...	\$34,127.29
23 kV UG Switch Cabinet (9/3 cabinet w/ all hardware & cable) = .....	\$33,323.80
23 kV Salt Spray UG Switch Cabinet (9/3 cabinet w/ all hardware & cable) = ...	\$41,282.51
13 kV UG Switch Cabinet (6/6 cabinet w/ all hardware & cable) = .....	\$25,880.48
13 kV Salt Spray UG Switch Cabinet (6/6 cabinet w/ all hardware & cable) = ...	\$32,864.45
23 kV UG Switch Cabinet (6/6 cabinet w/ all hardware & cable) = .....	\$32,356.75
23 kV Salt Spray UG Switch Cabinet (6/6 cabinet w/ all hardware & cable) = ...	\$39,173.49
13 kV OH Switch Cabinet (including switch, pole, and all Hardware) = .....	\$5,284.05
13 kV OH Salt Spray Switch Cabinet (including switch, pole, and all Hardware) = ...	\$6,168.03
23 kV OH Switch Cabinet (including switch, pole, and all Hardware) = .....	\$5,401.92
23 kV OH Salt Spray Switch Cabinet (including switch, pole, and all Hardware) = ...	\$6,325.60
13 kV UG Switch Cabinet - 9/3 Cabinet Differential = .....	\$21,675.27
13 kV Salt Spray UG Switch Cabinet - 9/3 Cabinet Differential = .....	\$27,959.26
23 kV UG Switch Cabinet - 9/3 Cabinet Differential = .....	\$27,921.88
23 kV Salt Spray UG Switch Cabinet - 9/3 Cabinet Differential = .....	\$34,956.91
13 kV UG Switch Cabinet - 6/6 Cabinet Differential = .....	\$20,596.43
13 kV Salt Spray UG Switch Cabinet - 6/6 Cabinet Differential = .....	\$26,696.42
23 kV UG Switch Cabinet - 6/6 Cabinet Differential = .....	\$26,954.83
23 kV Salt Spray UG Switch Cabinet - 6/6 Cabinet Differential = .....	\$32,847.89
Switch Cabinet Differential (Weighted Average) = .....	\$25,697.99

\* These costs include cable-in-conduit and cable pull boxes.

Note: See Appendix B, page 4, for design criteria and assumptions

## 2010 UCD TARIFF

## SMALL COMMERCIAL SERVICES (1)

## WOOD POLE, ACCESSIBLE

	120 VOLT, 2-WIRE SERVICE			120/240 VOLT, 3-WIRE SERVICE		
	OVERHEAD	UNDERGROUND	DIFFERENTIAL	OVERHEAD	UNDERGROUND	DIFFERENTIAL
MATERIAL (2)	\$22.37	\$125.51	\$103.14	\$68.91	\$201.42	\$132.51
LABOR(4)	\$101.23	\$573.43	\$472.20	\$112.90	\$593.86	\$480.96
STORES HANDLING (3)	\$1.45	\$8.12	\$6.67	\$4.46	\$13.04	\$8.58
ENGINEERING (5)	\$34.08	\$192.73	\$158.65	\$50.77	\$220.33	\$169.56
TOTAL	\$159.13	\$899.79	\$740.66	\$237.04	\$1,028.65	\$791.61
						\$615.89

## WOOD POLE, INACCESSIBLE

	120 VOLT, 2-WIRE SERVICE			120/240 VOLT, 3-WIRE SERVICE		
	OVERHEAD	UNDERGROUND	DIFFERENTIAL	OVERHEAD	UNDERGROUND	DIFFERENTIAL
MATERIAL (2)	\$22.37	\$125.51	\$103.14	\$68.91	\$201.42	\$132.51
LABOR(4)	\$119.45	\$676.65	\$557.20	\$133.23	\$700.77	\$567.54
STORES HANDLING (3)	\$1.45	\$8.12	\$6.67	\$4.46	\$13.04	\$8.58
ENGINEERING (5)	\$39.05	\$220.86	\$181.81	\$56.32	\$249.48	\$193.16
TOTAL	\$182.32	\$1,031.14	\$848.82	\$262.92	\$1,164.71	\$901.79
						\$698.19

## CONCRETE POLE, ACCESSIBLE

	120 VOLT, 2-WIRE SERVICE			120/240 VOLT, 3-WIRE SERVICE		
	OVERHEAD	UNDERGROUND	DIFFERENTIAL	OVERHEAD	UNDERGROUND	DIFFERENTIAL
MATERIAL (2)	\$22.37	\$139.31	\$116.94	\$68.91	\$223.41	\$154.50
LABOR(4)	\$101.23	\$573.43	\$472.20	\$112.90	\$593.86	\$480.96
STORES HANDLING (3)	\$1.45	\$9.02	\$7.57	\$4.46	\$14.46	\$10.00
ENGINEERING (5)	\$34.08	\$196.74	\$162.66	\$50.77	\$226.71	\$175.94
TOTAL	\$159.13	\$918.50	\$759.37	\$237.04	\$1,058.44	\$821.40
						\$637.00

1 - Conditions for FPL providing the UG service wire to a non-residential customer's meter can include:

- A) Customer's Main Line Switch is to be less than or equal to 125 amps (120/240 Volt 3-wire service) or 60 amps (120 Volt 2-wire service) AND
- B) The meter can is at least 5 feet, but not more than 100 feet, from the pole.

2 - Includes Sales Tax.

3 - 7.11 % of All Material.

4 - Includes Payroll, Taxes, Insurance, P&W, & Transportation.

5 - 27.258% of All Material and Labor.

\* These costs include cable-in-conduit and cable pull boxes.

Note: See Appendix B, page 4, for design criteria and assumptions

EXHIBIT LX



## 2010 UCD TARIFF

## CREDITS

Lateral Trench Credit = .....	\$109.47 /MH X 0.029	MH =.....	\$3.17 /Ft.
		Round To.....	\$3.17 /Ft.
Secondary/Service Trench Credit = .....	\$109.47 /MH X 0.027	MH =.....	\$2.96 /Ft.
		Round To.....	\$2.96 /Ft.
2" Conduit Installation Credit = .....	\$109.47 /MH X 0.005	MH =.....	\$0.55 /Ft.
		Round To.....	\$0.55 /Ft.
Larger than 2" Conduit Installation Credit =	\$109.47 /MH X 0.007	MH =.....	\$0.77 /Ft.
		Round To.....	\$0.77 /Ft.
Large (48") Handhole/ Primary Splice Box Installation Credit = .....	\$109.47 /MH X 1.94	MH =.....	\$212.37 /HH
		Round To.....	\$212.37 /HH
Small (30" or smaller) Handhole Installation Credit = .....	\$109.47 /MH X 0.51	MH =.....	\$55.83 /HH
		Round To.....	\$55.83 /HH
Concrete Pad for Pad Mounted Transformer Credit = .....	\$109.47 /MH X 0.5	MH =.....	\$54.74 /Pad
		Round To.....	\$54.74 /Pad
Feeder Splice Box Installation Credit = .....	\$109.47 /MH X 5.54	MH =.....	\$606.46 /Box
		Round To.....	\$606.46 /Box
Padmount Switch Chamber Installation Credit = .....	\$109.47 /MH X 4.71	MH =.....	\$515.60 /Chamber
		Round To.....	\$515.60 /Chamber